Pioneer

BDP-450
BDP-150
BDP-150-K
BDP-150-S

Blu-ray 3D™ PLAYER

For customers in Europe:
Discover the benefits of registering your product online at
http://www.pioneer.co.uk (or **http://www.pioneer.eu**)
Download an electronic version of this manual from our website.

Operating Instructions

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_A1_En

CAUTION
This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007.

CLASS 1 LASER PRODUCT

D58-5-2-2a_A1_En

WARNING
This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A1_En

WARNING
Before plugging in for the first time, read the following section carefully.
The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-4*_A1_En

VENTILATION CAUTION
When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

WARNING
Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b*_A1_En

Operating Environment
Operating environment temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c*_A1_En

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.
The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-1a_A1_En

CAUTION
The ⏻ **STANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a*_A1_En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

K041_A1_En

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

S002*_A1_En

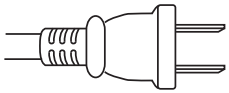
WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a_A1_En

For Taiwan exclusively

Taiwanese two pin flat-bladed plug



K056_A1_En

Information for users on collection and disposal of old equipment and used batteries

Symbol for equipment

Symbol examples for batteries

Pb

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

These symbols are only valid in the European Union.

For countries outside the European Union:

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

K058a_A1_En

Cautions on 3D Viewing

- **If you should experience any fatigue or discomfort while viewing 3D images, stop viewing them.**
- **Children, particularly those under 6, may be more prone to sensitivity, so guardians should watch for any signs of fatigue or discomfort.**
- **When viewing 3D images, rest periodically.**
  Extended viewing of 3D images without rest periods could cause fatigue or discomfort.

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Chapter 1

Before you start

What's in the box

- Remote control x 1
- Video/audio cable (yellow/white/red plugs) x 1 (BDP-150 only)
- AAA/R03 dry cell batteries x 2
- Warranty card (European and Russian models only)
- Power cord
- Operating instructions (this document)

Putting the batteries in the remote control

The batteries included with the player have been provided to allow you to check product operation and may not last long. We recommend using alkaline batteries that have a longer life.

WARNING

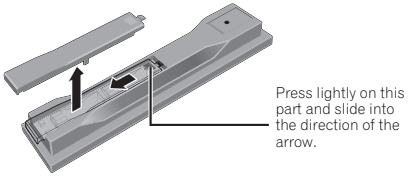
- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

Caution

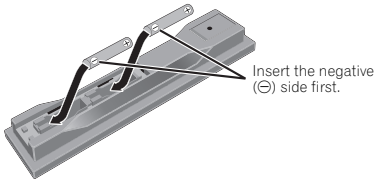
- Do not use any batteries other than the ones specified. Also, do not use a new battery together with an old one.
- When loading the batteries into the remote control, set them in the proper direction, as indicated by the polarity marks (⊕ and ⊖).
- When inserting the batteries, make sure not to damage the springs on the battery's ⊖ terminals. This can cause batteries to leak or overheat.
- Do not heat batteries, disassemble them, or throw them into flames or water.
- Batteries may have different voltages, even if they look similar. Do not use different kinds of batteries together.
- To prevent leakage of battery fluid, remove the batteries if you do not plan to use the remote control for a long period of time (1 month or more). If the fluid should leak, wipe it carefully off the inside of the case, then insert new batteries. If a battery should leak and the fluid should get on your skin, flush it off with large quantities of water.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

❖ BDP-450

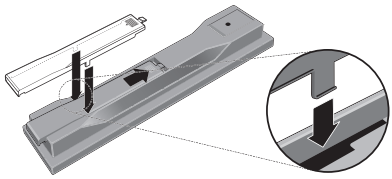
1 Open the rear cover.



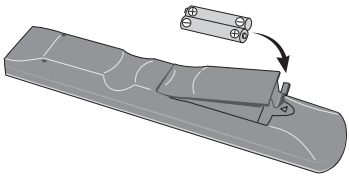
2 Insert the batteries (AAA/R03 x 2).
Insert as indicated by the ⊕/⊖ marks into the battery compartment.



3 Close the rear cover.
Close securely (a click should be heard).



❖ BDP-150



1 Open the rear cover.

2 Insert the batteries (AAA/R03 x 2).
Insert as indicated by the ⊕/⊖ marks into the battery compartment.

3 Close the rear cover.
Close securely (a click should be heard).

Software Update

Product information on this player is provided on the Pioneer website. Check this website for update and service information on your Blu-ray disc player.

IN Europe:
http://www.pioneer.eu/

IN U.K.:
http://www.pioneer.eu/
http://www.pioneer.co.uk/

IN Russia:
http://www.pioneer.eu/
http://www.pioneer-rus.ru/

IN Hong Kong:
http://www.pioneerhongkong.com.hk/

IN Singapore:
http://www.pioneer.com.sg/firmwaredownload

IN Australia:
http://www.pioneer.com.au/

About operation of this player from a mobile device (iPod, iPhone, iPad etc.)

The player can be controlled from a mobile device by installing the special application onto the mobile device.

For details, see the product information on the Pioneer website.

This special application may be changed or discontinued without notice.

Types of discs/files that can be played

Playable discs

Discs with the logo marks below indicated on the disc label, package or jacket can be played.

⚠ Caution

- **Only the discs that have been finalized can be played.**

Disc type		Logo	Application format						
			BDMV	BDAV	DVD-Video	DVD-Audio	DVD VR	CD-DA DTS-CD	DATA-DISC[1]
BD[2]	BD-ROM		✓	✓	✗	✗	✗	✗	✗
	BD-R		✓	✓	✗	✗	✗	✗	✓
	BD-RE		✓	✓	✗	✗	✗	✗	✓
DVD	DVD-ROM		✓	✗	✓	✓[3]	✗	✗	✓
	DVD-R[2,4,5]		✓[6]	✓[7]	✓	✗	✓	✗	✓
	DVD-RW[4,8]		✓[6]	✓[7]	✓	✗	✓	✗	✓
	DVD+R[2,4]		✓	✗	✓	✗	✗	✗	✓
	DVD+RW[4]		✓	✗	✓	✗	✗	✗	✓
CD	CD-DA (Audio CD)[9]		✗	✗	✗	✗	✗	✓	✗
	CD-R[4]		✗	✗	✗	✗	✗	✓	✓
	CD-RW[4]		✗	✗	✗	✗	✗	✓	✓
	CD-ROM		✗	✗	✗	✗	✗	✓	✓

1. Discs on which video, image or audio files are recorded. This player does not support multisession discs or multiborder recording.
2. Including dual-layered discs.
3. BDP-450 only.
4. Finalize them before playing them on this player.
5. DVD-R for Authoring discs (3.95 and 4.7 GB) cannot be played.
6. Including the AVCHD format.
7. Including the AVCREC format.
8. Version 1.0 DVD-RW discs cannot be played.
9. Including Video CDs.

- *"Blu-ray Disc", "Blu-ray" and "Blu-ray Disc" logo are trademarks of Blu-ray Disc Association.*
- *is a trademark of DVD Format/Logo Licensing Corporation.*

❖ Discs that cannot be played

- HD DVDs
- DVD-RAM discs

It is possible that some discs other than the ones listed above may not be playable either.

Note

- Some discs cannot be played, even if one of the logo marks on the previous page is indicated.
- To play 8 cm discs, set the disc in the 8 cm disc depression in the center of the disc tray. No adapter is necessary. 8 cm BD-ROMs cannot be played.

❖ About playback of unauthorized copies

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

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❖ About audio formats

The following audio formats are supported on this player:

- Dolby TrueHD
- Dolby Digital Plus
- Dolby Digital
- DTS-HD Master Audio
- DTS-HD High Resolution Audio
- DTS Digital Surround
- MPEG audio (AAC)
- Linear PCM

To enjoy the surround sound of Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio, it is recommended to connect the player to an AV receiver or amplifier compatible with these audio formats using an HDMI cable. After loading a BD containing sound in one of these audio formats, select the audio format on the menu screen.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio | Essential is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

❖ Playing BDs

- BDs (BDMV) compatible with the formats below can be played.
  - Blu-ray Disc Read-Only (ROM) Format Version 2
  - Blu-ray Disc Recordable (R) Format Version 2
  - Blu-ray Disc Rewritable (RE) Format Version 3

  This player supports BD-ROM Profile 5.

"Blu-ray 3D" and "Blu-ray 3D" logo are trademarks of Blu-ray Disc Association.

BONUSVIEW functions such as playback of secondary video (Picture-in-Picture) and secondary audio can be used. The data used with the BONUSVIEW functions (the secondary video (Picture-in-Picture) and secondary audio data) may be stored in the storage. For details on secondary video and secondary audio playback, refer to the disc's instructions.

"BONUSVIEW" is trademark of Blu-ray Disc Association.

BD-LIVE functions such as downloading movie trailers or additional audio and subtitle languages and playing on-line games can be enjoyed over the Internet. The data downloaded with the BD-LIVE function (trailers, etc.) is stored in the storage. Refer to the disc's instructions for details about BD-LIVE functions.

"BD-LIVE" logo is trademark of Blu-ray Disc Association.

With BD-ROMs, it is possible to use BD-J (Java) applications to create highly interactive titles, for example including games.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

- BDs (BDAV) compatible with the formats below can be played.
  - Blu-ray Disc Recordable (R) Format Version 1
  - Blu-ray Disc Rewritable (RE) Format Version 2

❖ Playing DVDs

This label indicates playback compatibility with DVD-RW discs recorded in VR format (Video Recording format). However, for discs recorded with a record-only-once encrypted program, playback can only be achieved using a CPRM compatible device.

The AVCHD is a high definition (HD) digital video camera recorder format recording high-definition onto certain media by using highly efficient codec technologies.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.

❖ About region numbers

Blu-ray Disc Player and BD-ROM or DVD-Video discs are assigned region numbers according to the region in which they are sold.

This player's region numbers are:

- BD-ROM:
  - *Europe, Australia and New Zealand models*: B
  - *Russia models*: C
  - *Others*: A
- DVD-Video:
  - *Europe models*: 2
  - *Australia and New Zealand models*: 4
  - *Russia models*: 5
  - *Others*: 3

Discs not including these numbers cannot be played. Discs playable on this player are as shown below.

- BDs:
  - *Europe, Australia and New Zealand models*: B (including B) and ALL
  - *Russia models*: C (including C) and ALL
  - *Others*: A (including A) and ALL
- DVDs:
  - *Europe models*: 2 (including 2) and ALL
  - *Australia and New Zealand models*: 4 (including 4) and ALL
  - *Russia models*: 5 (including 5) and ALL
  - *Others*: 3 (including 3) and ALL

❖ Playing CDs

Regarding copy protected CDs: This player is designed to conform to the specifications of the Audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.

❖ DualDisc playback

A DualDisc is a two-sided disc, one side of which contains DVD content — video, audio, etc. — while the other side contains non-DVD content such as digital audio material.

The DVD side of a DualDisc can be played on this player.

The non-DVD, audio side of the disc is not compatible with this player.

It is possible that when loading or ejecting a DualDisc, the opposite side to that being played will be scratched. Scratched discs may not be playable.

For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

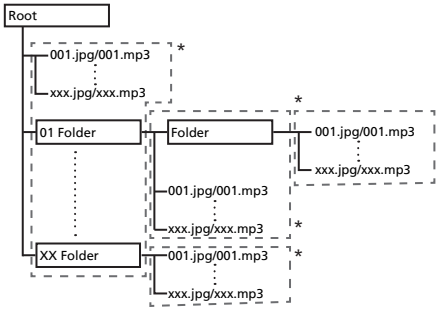
❖ Playing discs created on computers or BD/DVD recorders

- It may not be possible to play discs recorded using a computer due to the application settings or computer's environment settings. Record discs in a format playable on this player. For details, contact the dealer.
- It may not be possible to play discs recorded using a computer or a BD/DVD recorder, if burn quality is not good due to characteristics of the disc, scratches, dirt on the disc, dirt on the recorder's lens, etc.

❖ About video, audio, and image files and folders

Audio and image files can be played on this player when the folders on the disc or USB device are created as described below.

Example of folder structure:



* The number of folders and files within a single folder (including the root directory) is limited to a maximum of 256. Also, keep the number of folder layers to a maximum of 5.

Note

- The file and folder names displayed on this player may differ from those displayed on a computer.

Playable files

Video, image and audio files recorded on BDs, DVDs, CDs or USB devices can be played.

❖ Supported video file formats

- **Real RMVB** (Only for ASEAN and Taiwan models)

Real RMVB logo is a trademark or a registered trademark of RealNetworks, Inc.

- **DivX Plus HD**

  DivX Certified® to play DivX® and DivX Plus™ HD (H.264/MKV) video up to 1080p HD including premium content.

  ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation.

  This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

  ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX®, DivX Certified®, DivX Plus™ HD and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

Note

- This DivX® Certified device must be registered in order to play DivX Video-on-Demand (VOD) content. First generate the DivX VOD registration code for your device and submit it during the registration process. Important: DivX VOD content is protected by a DivX DRM (Digital Rights Management) system that restricts playback to registered DivX Certified devices. If you try to play DivX VOD content not authorized for your device, the message **Authorization Error** will be displayed and your content will not be played. Learn more at www.divx.com/vod.
  - This player's DivX VOD registration code can be checked at **HOME MENU → Initial Setup → Playback → DivX(R) VOD DRM → Registration Code** (page 43).
  - The number of views is restricted for some DivX VOD files. When such files are played on this player, the remaining number of views is displayed. Files for which the remaining number of views has reached 0 cannot be played (**This DivX rental has expired** is displayed). Files for which the number of views is not restricted can be played as many times as you like (the remaining number of views is not displayed).

❖ Table of Playable Files

Playable files (Extensions)	Playable media			File specifications
	BD-R/RE/-R DL/ RE DL/-R LTH, DVD-R/RW/-R DL/ +R/+RW/+R DL, CD-R/RW	USB devices[1]	Network	
MP3 (.mp3)	✓	✓	✓	Sampling frequencies: Up to 48 kHz Bit rate: Up to 320 kbps Audio type: MPEG-1 Audio Layer 3
WMA (.wma)	✓	✓	✓	Sampling frequencies: Up to 48 kHz Bit rate: Up to 192 kbps Audio type: WMA version 9
LPCM (.wav)	✓	✓	✓	Sampling frequencies: Up to 192 kHz Quantization bitrate: 16 bit Channel: 2ch
FLAC (.flac)	✓	✓	✗	Sampling frequencies: Up to 192 kHz Quantization bitrate: 16 bit, 24 bit Channel: 2ch
JPEG (.jpg/.jpeg)	✓	✓	✓	Maximum resolution: 4 000 x 3 000 pixels
DivX (.avi/.divx/.mkv)	✓	✓	✓	Supported versions: Through DivX® PLUS HD Maximum resolution: Up to 1 920 x 1 080 (DivX® PLUS HD) Up to 1 280 x 720 (MKV)
MP4 (.mp4)	✓	✓	✓	Maximum resolution: Up to 1 920 x 1 080 Video: MPEG4, MPEG-4 AVC (level 4.1) Audio: AAC, MP3
WMV (.wmv)	✓	✓	✓	Maximum resolution: Up to 1 280 x 720 Video: WMV9, WMV9AP (VC-1) Audio: WMA
AVI (.avi)	✓	✓	✓	Maximum resolution: Up to 1 920 x 1 080 Video: MPEG4 Audio: MP3, AAC, AC-3
3GP[2] (.3gp)	✓	✓	✓	Maximum resolution: Up to 1 920 x 1 080, up to 8 Mbps Video: H.263, MPEG4, H.264 Audio: MPEG-4 AAC
FLV[2] (.flv)	✓	✓	✓	Video: Sorenson H.263 (FLV1), On2 VP6 (FLV4), Screen video, H.264 Audio: MP3, ADPCM, Linear PCM, Nellymoser, Speex, AAC, HE-AAC
RMVB[3] (.rm/.rmvb)	✓	✓	✗	Maximum resolution: Up to 1 280 x 720 Video: RealVideo® Audio: RealAudio®, AAC

1. This unit supports FAT16, FAT32 and NTFS file systems.
2. BDP-450 only
3. Only for ASEAN and Taiwan models.

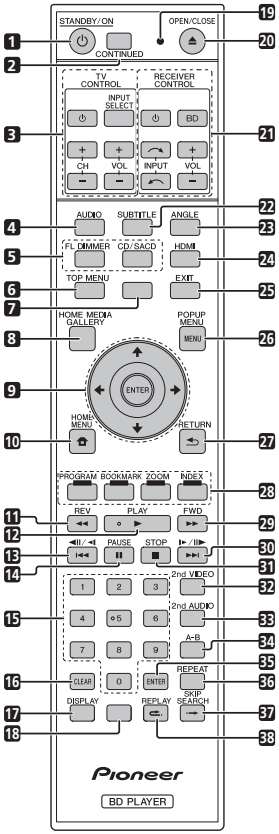
Note

- Depending on the file structure and server capacity, it may not be possible to play certain files, even for files indicated on the table of playable files above.
- Files protected by DRM (Digital Rights Management) cannot be played.
- AVCHD contents cannot be played via LAN.

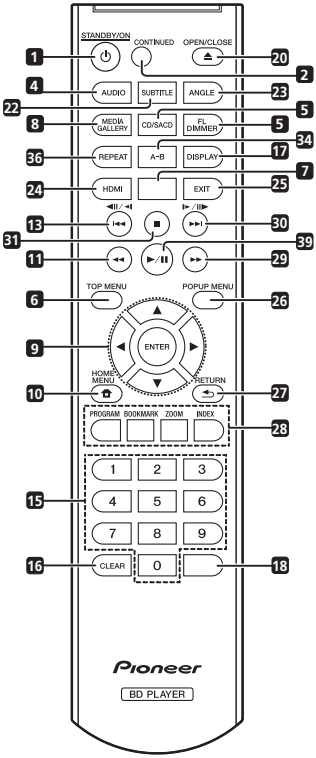
Part Names and Functions

Remote Control

❖ BDP-450



❖ BDP-150



1 ⏻ **STANDBY/ON** – Press to turn the power on and off.

2 **CONTINUED** – Use to continue playback from a specified position. (page 34)

3 **TV CONTROL** – (page 25)

4 **AUDIO** – (page 30)

5 **FL DIMMER**
BDP-450 – Each time this is pressed, the brightness of the front panel display changes and/or the lighting status of the indicators on the front panel switches as shown in the table below.

Front panel display	Indicators	
	PQLS	FL OFF
Bright	Lights	Off
Middle	Lights	Off
Dark	Lights	Off
Off	Off	Lights

BDP-150 – Each time this is pressed, the brightness of the front panel display switches (in 4 levels).

CD/SACD
For hybrid discs, press to switch between the CD and SACD layers (page 30).

6 **TOP MENU** – Press to display the top menu of the BD-ROM or DVD-Video.

7 *U.K. models:* **NETFLIX** – (page 38)
Others: **FUNCTION** – (page 33)

8 **HOME MEDIA GALLERY** (BDP-450) – (page 35)
MEDIA GALLERY (BDP-150) – (page 35)

9 ↑/↓/←/→ (BDP-450)
▲/▼/◀/▶ (BDP-150)

Use to select items, change settings and move the cursor.

ENTER – Press to execute the selected item or enter a setting that has been changed, etc.

10 **HOME MENU** – (page 40)

11 ◀◀ **REV** – (page 27)

12 ▶ **PLAY** – (page 27)

13 I◀◀/◀II/◀I – (pages 27 and 28)

14 **II PAUSE** – (page 27)

15 **Number buttons** – Use these to select and play the title/chapter/track you want to view or listen to and to select items from menus.

16 **CLEAR** – Press to clear the numeric number, etc.

17 **DISPLAY** – (page 31)

18 *U.K. models:* **FUNCTION** – (page 33)
Others: **KEYLOCK** – (page 14)

19 **Remote control LED** – Lights when a command is sent from the remote control. Flashes while the TV band code is being set.

20 ⏏ **OPEN/CLOSE** – Press to open and close the disc tray.

21 **RECEIVER CONTROL**

22 **SUBTITLE** – (page 29)

23 **ANGLE** – (page 29)

24 **HDMI**
BDP-450 – The **HDMI Mode** switches each time this is pressed (pages 18 and 41). When pressed and held for over 2 seconds, resolution of the video output from the **HDMI OUT** terminal switches (page 41).

BDP-150 – Use to switch the resolution of the video signals output from the **HDMI OUT** terminal (page 41).

25 **EXIT** – (page 38)

26 **POP UP MENU/MENU** – Press to display the BD-ROM or DVD-Video menus.

27 **RETURN** – Press to return to the previous screen.

28 **Color buttons** – Use these to navigate BD-ROM menus.
PROGRAM – (page 28)
BOOK MARK – (page 29)
ZOOM – (page 29)
INDEX – (page 29)

29 ▶▶ **FWD** – (page 27)

30 I▶/II▶/▶▶I – (pages 27 and 28)

31 ■ **STOP** – (page 27)

32 **2nd VIDEO** – (page 30)

33 **2nd AUDIO** – (page 30)

34 **A-B** – (page 28)

35 **ENTER** – Press to execute the selected item or enter a setting that has been changed, etc.

36 **REPEAT** – (page 28)

37 ⇢ **SKIP SEARCH** – Press to skip 30 seconds ahead when ⇢ **SKIP SEARCH** is pressed during playback.

38 ⇦ **REPLAY** – Press to jump back 10 seconds when ⇦ **REPLAY** is pressed during playback.

39 ▶/II – (page 27)

❖ Keylock function (not applicable for the U.K. model of the BDP-150)

You can set the keylock to prevent accidental operations.

This function allows TVs compatible with control function with HDMI to also perform a Key Lock on the player.

Press and hold **KEYLOCK** for more than 2 seconds.

- Each time you perform this operation, the function is activated or deactivated.
- If you try to operate the player while the keylock function is set, **LOCK** lights on the front panel display.

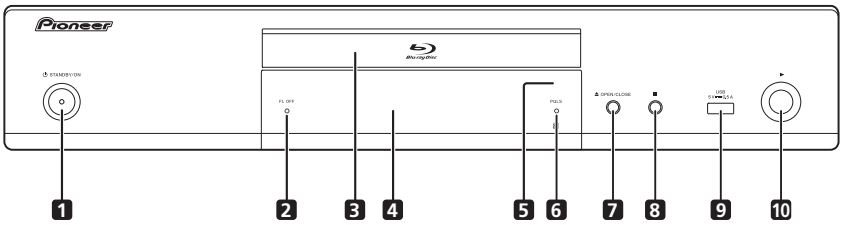
Note

- To operate an AV receiver equipped with a remote control mode setting using the **RECEIVER CONTROL** buttons, set the AV receiver's remote control mode to "1". For details, see the AV receiver's operating instructions.
- This remote control unit is equipped with two **ENTER** buttons (**9** and **35** listed above).
- These instructions mainly refer to the remote control buttons for the BDP-450. For the BDP-150, please replace the buttons as shown below.

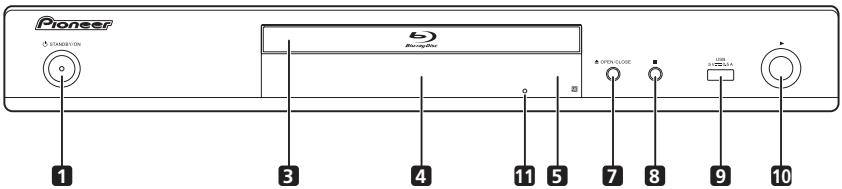
BDP-450	BDP-150
⬆/⬇/⬅/➡	▲/▼/◀/▶
► PLAY	►/II
II PAUSE	
HOME MEDIA GALLERY	MEDIA GALLERY

Front Panel

❖ BDP-450



❖ BDP-150



1 ⏻ **STANDBY/ON** – Press to turn the power on and off.
- For the BDP-450, if the power cannot be turned off (to standby), press and hold the button for over 5 seconds. The unit restarts and can now be operated.

2 **FL OFF indicator** (BDP-450 only) – (page 13)

3 **Disc tray**

4 **Front panel display**
- Only the counter display is provided on the BDP-150.

5 **Remote control sensor** – Point the remote control to this, then operate it within approximately 7 m. The player may have trouble capturing remote control signals if there is a fluorescent light nearby. If this happens, move the player away from the fluorescent light.

6 **PQLS indicator** (BDP-450 only) – (page 19)

7 ⏏ **OPEN/CLOSE** – Press to open and close the disc tray.

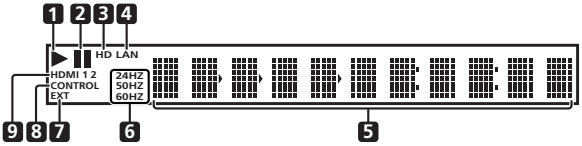
8 ■ – Press to stop playback.

9 **USB port** – (page 22)

10 ► – Press to start playback.

11 **Reset button** (BDP-150 only) – If the power cannot be turned off (set to standby), use a thin rod to press this button. The unit restarts, at which point it is again operable.

Front Panel Display (BDP-450 only)



1 ► – This lights during playback.

2 ❚❚ – This lights when pausing.

3 **HD** – This lights when an HDMI cable is connected and video signals are being output with a resolution of 1080/50i, 1080/50p, 720/50p, 1080/24p, 1080/60i, 1080/60p or 720/60p.

4 **LAN** – This lights when connected to a network.

5 **Character display** – Displays the title/chapter/track number, elapsed time, etc.

6 **24HZ/50HZ/60HZ** – The frequency of the video frame or field being output lights.

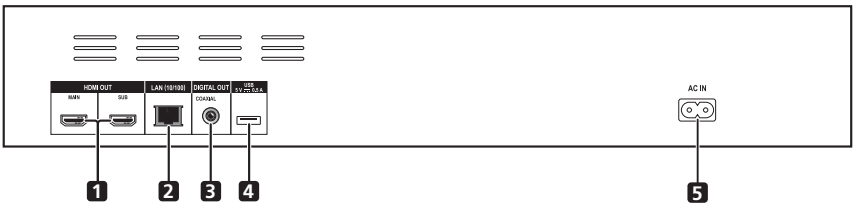
7 **EXT** – This lights when a USB device is connected.

8 **CONTROL** – This lights when the **Control** setting is turned on.

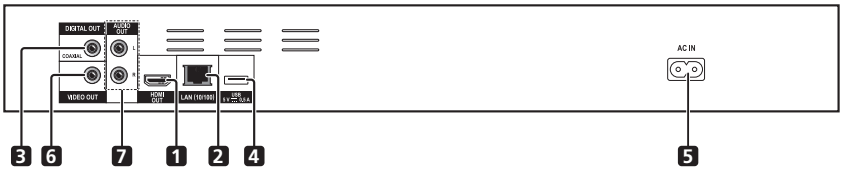
9 **HDMI 1 2** – This lights when an HDMI device is connected. [1] lights when the device is connected to the **HDMI OUT (MAIN)** terminal, [2] lights when the device is connected to the **HDMI OUT (SUB)** terminal.

Rear Panel

❖ BDP-450



❖ BDP-150



1 **HDMI OUT terminal** – (page 17)

2 **LAN (10/100) terminal** – (page 23)

3 **DIGITAL OUT (COAXIAL) terminal** – (page 22)

4 **USB port** – (page 22)

5 **AC IN** – (page 23)

6 **VIDEO OUT terminal** (BDP-150 only)– (page 21)

7 **AUDIO OUT terminals** (BDP-150 only) – (page 21)

❖ About the HDMI terminals on the BDP-450

MAIN – Connect with an HDMI-compatible TV or/and AV receiver or amplifier. This is the terminal that is used mainly.

SUB – Connect with an HDMI compatible AV receiver or amplifier.

Chapter 2

Connecting up

Be sure to turn off the power and unplug the power cord from the power outlet whenever making or changing connections.

After connecting, make the settings at the **Setup Navigator** or **Initial Setup** menu according to the type of cable connected (page 24).

Also refer to the operating instructions for the device being connected.

Connecting using an HDMI cable

The audio and video signals can be transferred to HDMI-compatible devices as digital signals with no loss of sound or video quality.

Note

- Make the settings at the **Setup Navigator** menu according to the connected HDMI-compatible device (page 24). For the BDP-450, make the **HDMI Mode** setting at the **Initial Setup** menu according to the connection of the devices to the player (pages 18 and 41).
- 1080p video signals may not be output, depending on the HDMI cable being used.

About HDMI

This player incorporates the High-Definition Multimedia Interface (HDMI®) technology.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

The player supports Deep Color.
The conventional players can transmit a video signal with 8 bit color depth in the YCbCr 4:4:4 or RGB format; the players supporting Deep Color can transmit a video signal with a color bit depth of greater than 8 bits per color component. Subtle color gradations can be reproduced when this player is connected to a TV that supports Deep Color.

This product is compatible with "x.v.Color" that have the capability to realize a wide-gamut color space based on the xvYCC specifications.
Playing video signals conforming to "xvYCC" standards on this player when this player is connected to an "x.v.Color"-compatible TV, etc., expands color reproduction capabilities, allowing natural colors to be reproduced more faithfully than ever.
"x.v.Color" is a promotion name given to the products that have the capability to realize a wide-gamut color space based on the international standard specifications defined as xvYCC.

x.v.Color

"x.v.Color" and x.v.Color *are trademarks of Sony Corporation.*

❖ Playable audio signals through the HDMI OUT terminal

- Dolby TrueHD
- Dolby Digital Plus
- Dolby Digital
- DTS-HD Master Audio
- DTS-HD High Resolution Audio
- DTS Digital Surround
- MPEG-2 AAC (Only for ASEAN and Taiwan models)
- Linear PCM

  Linear PCM audio signals meeting the following conditions can be output:
  - Sampling frequency: 32 kHz to 192 kHz
  - Number of channels: Up to 8 (up to 6 for a 192 kHz sampling frequency)
- DSD audio

❖ When connected to a DVI device

- **It is not possible to connect DVI devices (computer displays, for example) that are not compatible with HDCP.** HDCP is a specification to protect audiovisual content across the DVI/HDMI interface.
- No audio signals are output.
- This player is designed for connection with HDMI-compatible devices. When connected to a DVI device, it may not operate properly depending on the DVI device.

About Control Function with HDMI

The functions work when a control function with HDMI-compatible Pioneer Flat Screen TV or AV system (AV receiver or amplifier, etc.) is connected to the player using an HDMI cable.

Also refer to the operating instructions for the Flat Screen TV and AV system (AV receiver or amplifier, etc.).

❖ To use the control function with HDMI

- The control function with HDMI operates when control function with HDMI is set to On for all devices connected with HDMI cables.
- Once the connections and the settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also check after changing the connected devices and reconnecting HDMI cables.) The control function with HDMI may not operate properly if the player's picture is not properly output to the Flat Screen TV.
- Use High Speed HDMI®/™ Cables when using the control function with HDMI. The control function with HDMI may not operate properly if other HDMI cables are used.
- For some models, the control function with HDMI may be referred to as "KURO LINK" or "HDMI Control".
- The control function with HDMI does not work with devices of other brands, even if this player is connected with an HDMI cable.

❖ What the control function with HDMI can do

- **Outputting the optimum picture quality to a Flat Screen TV compatible with the control function with HDMI.**

  When the control function with HDMI is enabled, video signals with the optimum picture quality for control function with HDMI are output from the player's HDMI terminal.
- **Operating the player with the Flat Screen TV's remote control.**

  Such player operations as starting and stopping playback and displaying the menus can be performed from the Flat Screen TV.
- **The player's playback picture is displayed on the Flat Screen TV's screen. (Auto-select function)**

  The input switches automatically on the Flat Screen TV and AV system (AV receiver or amplifier, etc.) when playback is started on the player or the HOME MENU is displayed. When the input is switched, the playback picture, the HOME MENU appears on the Flat Screen TV.
- **The power of the Flat Screen TV and the player turns on and off automatically. (Simultaneous power function)**

  When playback on the player is started or the HOME MENU is displayed, if the Flat Screen TV's power was off, its power turns on automatically. When the Flat Screen TV's power is turned off, the player's power automatically turns off.

❖ Setting the HDMI Mode (Only for BDP-450)

The BDP-450 has two **HDMI OUT** (**MAIN**, **SUB**) terminals. See page 16 for the details on these terminals.

The **HDMI Mode** needs to be selected before playback to use the control function appropriately.

To make the setting, press **HOME MENU** to display the Home Menu, select **Initial Setup → Audio Output → HDMI Mode**.

See the table below and set up the **HDMI Mode** according to your connection style.

HDMI Mode	HDMI OUT MAIN			HDMI OUT SUB		
	Video	Audio	Control	Video	Audio	Control
Dual	✓	✓	✓	✓	✓	✗
Separate	✓	✗	✗	✗	✓	✓
Pure Audio	✗	✗	✗	✗	✓	✓

⚠ Caution

- When signals are being output simultaneously from the **HDMI OUT (MAIN)** and **HDMI OUT (SUB)** terminals, the video is output with the optimum picture quality for the TV connected to the **HDMI OUT (MAIN)**. Depending on the combination of TVs being used, it may not be possible to output video signals from the **HDMI OUT (SUB)** terminal. The audio is output in an audio format that can be output from both the **HDMI OUT (MAIN)** and **HDMI OUT (SUB)** terminals.

❖ Sound Retriever Link

About Sound Retriever Link

Sound Retriever Link is a sound quality correction control technology that automatically adjusts the compressed sound quality for the connected AV receiver using HDMI control function.

Sound Retriever Link function allows you to enjoy higher quality audio by setting the connected AV receiver's Sound Retriever function automatically.

Sound Retriever Link function on this player works exclusively with the following situations.

- When playing via a network or playing PC contents stored on a USB device.
- The Pioneer AV receiver compatible with Sound Retriever Link function is connected to this player through an HDMI cable and the player's setting is set as shown below (page 42).
  Control: On

- Also refer to the instructions of the AV receiver.
- See Pioneer website about AV receivers compatible with Sound Retriever Link function.

Caution

- Connect the player directly to the Pioneer AV receiver compatible with Sound Retriever Link function. Interrupting a direct connection with an amplifier or AV converter (such as an HDMI switch) can cause malfunction.

❖ Stream Smoother (only for BDP-450)

Stream Smoother is a function that automatically improves picture quality when playing network video contents by using a built-in high picture quality circuit to reduce mosquito noise, block noise, etc.

Stream Smoother function on this player works exclusively with the following situations.

- When playing a video distribution service on a network or PC contents stored on a medium.

Note

- On the BDP-450, this function is activated even when no AV receiver is connected.

❖ Stream Smoother Link (only for BDP-150)

About Stream Smoother Link

Stream Smoother Link is a function that improves picture quality of network video contents using the control function with HDMI. Stream Smoother Link function allows you to enjoy a high quality picture with less noise by setting the connected AV receiver's Stream Smoother function automatically.

Stream Smoother Link function on this player works exclusively with the following situations.

- When playing a video distribution service on a network or PC contents stored on a medium.
- The Pioneer AV receiver with Stream Smoother Link function is connected to this player through an HDMI cable and the player's setting is set as shown below (page 42). Also refer to the instructions for the AV receiver.
  Control: On

See Pioneer website about AV receivers compatible with Stream Smoother Link function.

Caution

- Connect the player directly to the Pioneer AV receiver compatible with Stream Smoother Link function. Interrupting a direct connection with an amplifier or AV converter (such as HDMI switch) can cause malfunction.

❖ About the PQLS function (Only for BDP-450)

PQLS (Precision Quartz Lock System) is a digital audio transfer control technology using the HDMI control function. The player's output signals are controlled from the AV receiver to achieve high sound quality playback using the receiver's quartz oscillator. This eliminates the influence of the jitter generated during signal transfer which can adversely affect the sound quality.

- This player supports the functions below.
  - The "PQLS 2ch Audio" function that is activated when playing music CDs (CD-DAs)
  - The "PQLS Multi Surround" function that is activated when playing all discs (BDs, DVDs, etc.) with linear PCM audio output
  - The "PQLS Bitstream" function that is activated when playing with bitstream audio output
- The various PQLS functions are activated when a Pioneer AV receiver supporting the PQLS functions is connected directly to the **HDMI OUT** terminal with an HDMI cable and the player's settings are set as shown below (page 42).
  Control: On
- Also refer to the AV receiver's operating instructions.
- See the Pioneer website for AV receivers supporting the PQLS function.

Caution

- The PQLS function may stop working when the video output resolution is switched. The PQLS function will start working again once playback is stopped then restarted.
- When the PQLS 2ch function is activated, the output from the player's **VIDEO OUTPUT** jacks may not have the proper colors. If this happens, connect the TV and AV receiver's HDMI terminals to view the picture.
- Turn on the power of the AV receiver connected to the **HDMI OUT** terminal, then start playback of the disc.

Note

- PQLS indicator on the player's front panel display lights when the PQLS function is activated (page 15).

Connecting a TV

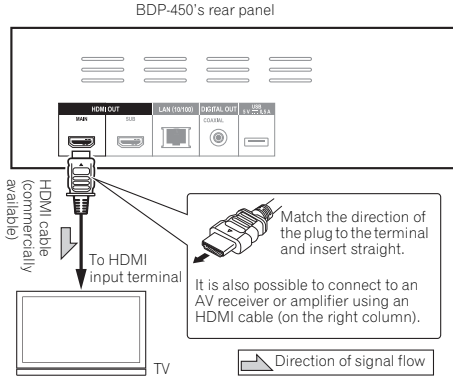
See *Connecting an AV receiver or amplifier* on the right column to connect an AV receiver or amplifier using an HDMI cable.

Caution

- Hold the plug when connecting and disconnecting the cable.
- Placing a load on the plug could result in faulty contact and no video signals being output.

❖ BDP-450

Connect a TV to the **HDMI OUT (MAIN)** terminal.

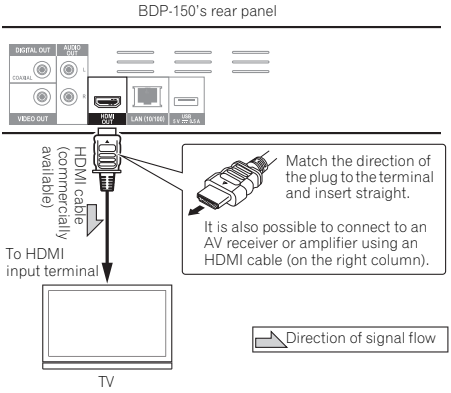

BDP-450's rear panel
HDMI OUT
MAIN
SUB
LAN (10/100)
DIGITAL OUT
COAXIAL
HDMI cable (commercially available)
To HDMI input terminal
Match the direction of the plug to the terminal and insert straight.
It is also possible to connect to an AV receiver or amplifier using an HDMI cable (on the right column).
TV
Direction of signal flow

It is also possible to connect a TV via AV reciever or amplifier to **HDMI OUT (MAIN)** terminal. See *Connecting an AV receiver or amplifier* on the right column.

Caution

- Make sure to set **HDMI Mode** to **Dual** (page 41).

❖ BDP-150


BDP-150's rear panel
DIGITAL OUT
COAXIAL
AUDIO OUT
VIDEO OUT
HDMI OUT
LAN (10/100)
HDMI cable (commercially available)
To HDMI input terminal
Match the direction of the plug to the terminal and insert straight.
It is also possible to connect to an AV receiver or amplifier using an HDMI cable (on the right column).
TV
Direction of signal flow

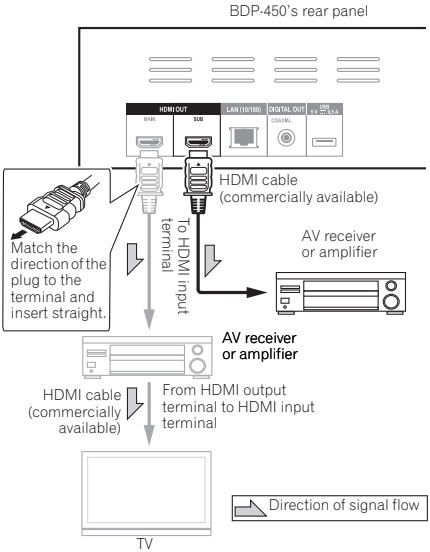
Connecting an AV receiver or amplifier

Connect to an AV receiver or amplifier in order to enjoy the surround sound of Dolby TrueHD, Dolby Digital Plus, Dolby Digital, DTS-HD Master Audio, DTS-HD High Resolution Audio or DTS Digital Surround. For instructions on connecting the TV and speakers to the AV receiver or amplifier, refer to the operating instructions for AV receiver or amplifier.

Caution

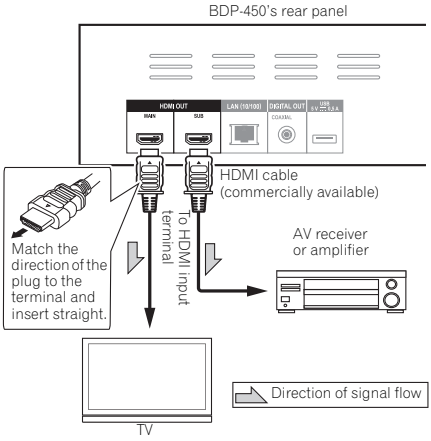
- Hold the plug when connecting and disconnecting the cable.
- Placing a load on the plug could result in faulty contact and no video signals being output.

❖ BDP-450



Achieving better video and sound quality

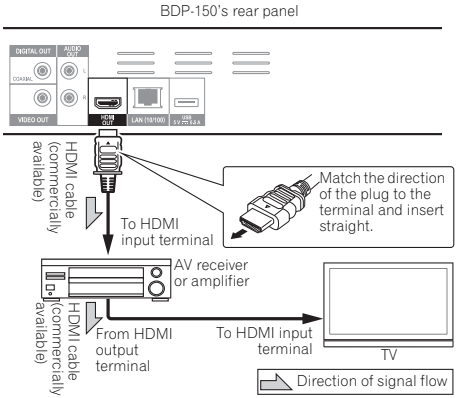
When connecting one TV (or projector) and AV amplifier to the player, connect in such a way that the video and audio signals are transferred separately in order to achieve higher quality video and sound.



Caution

- Make sure to set **HDMI Mode** to **Separate** (page 41).
- If the AV amplifier connected to the **HDMI OUT (SUB)** terminal is also connected to a TV, the TV's input may switch automatically. If this happens, turn off the control function with HDMI on the TV.

❖ BDP-150



Connecting video and audio cables

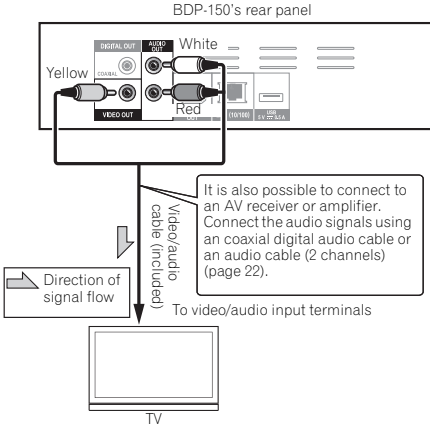
Note

- Make the settings in the **Setup Navigator** menu according to the type of cable connected (page 24).
- To output video signals from this player, connect using a video cable (not including when connected using an HDMI cable).

Connecting a TV using a video/audio cable (BDP-150 only)

Caution

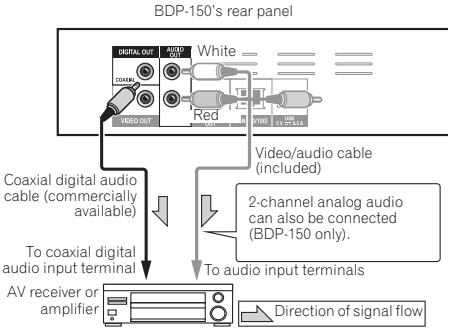
- **Connect the player's video output directly to your TV.**
  This player supports the analog copy protection technology. Therefore, the picture may not be displayed properly if this player is connected to a TV via a DVD recorder/video deck or when playing the player's output material that is recorded by a DVD recorder/video deck. Furthermore, the picture may not be displayed properly due to the copy protection when the player is connected to a TV with a built-in video deck. For details, contact the manufacturer of your TV.


BDP-150's rear panel
DIGITAL OUT
AUDIO OUT
COAXIAL
VIDEO OUT
White
Yellow
Red
LAN (10/100)
It is also possible to connect to an AV receiver or amplifier. Connect the audio signals using an coaxial digital audio cable or an audio cable (2 channels) (page 22).
Video/audio cable (included)
Direction of signal flow
To video/audio input terminals
TV

Note

- Video signals are output with a resolution of 480/576I or 480/576P when this player is connected using a video cable.
- Depending on the output video resolution setting, the picture may not be output.

Connecting an AV receiver or amplifier using an coaxial digital audio cable



Note

- To switch the video from the AV receiver or amplifier, also connect the video output terminals.

Connecting components to the USB port

About USB devices

The USB devices that can be connected to the player are as shown below.

- USB 2.0-compatible USB flash drive (capacity of 1 GB or greater, 2 GB or greater recommended) or HDD (capacity 2 TB or less)
- File system: FAT16, FAT32 or NTFS

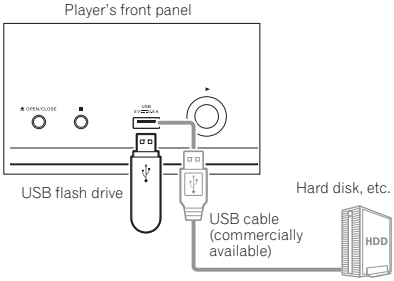
Note

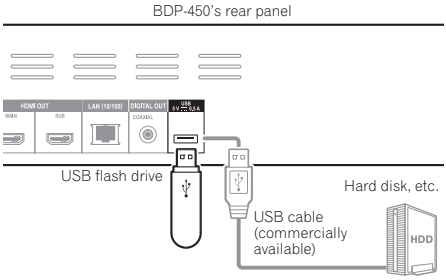
- Devices formatted with a file system other than the above cannot be used.
- USB devices may not be recognized if they contain multiple partitions.
- Some USB devices may not operate with this player.
- Operation of USB devices is not guaranteed.

Connecting the USB device

Caution

- Be sure to turn the player's power off before connecting or disconnecting USB devices.
- Use empty USB devices (on which nothing is stored).
- When using an external hard disk as the external storage device, be sure to turn on the hard disk's power before turning on the player's power.
- If the USB device is write-protected, be sure to disable the write-protection.
- When connecting the USB cable, hold onto the plug, set the plug in the proper direction for the port and insert it horizontally.
- Placing excessive loads on the plug may result in poor contact, making it impossible to write data on the USB device.
- When a USB device is connected and the player's power is turned on, do not unplug the power cord.



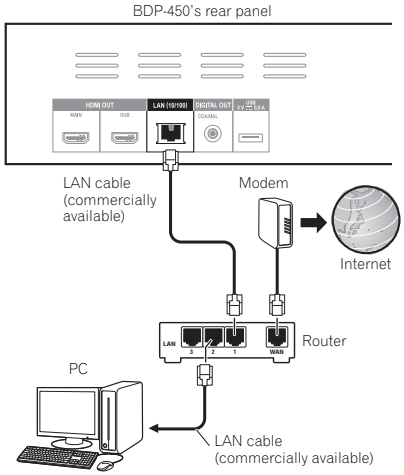


Note

- Devices may not work if connected to the **USB** port via a memory card reader or USB hub.
- Use a USB cable with a length of 2 meters or less.

Connecting to the network through LAN interface

By connecting this player to the network via the LAN terminal, you can play audio files stored on the components on the network, including your computer, using HOME MEDIA GALLERY inputs.



Connect the LAN terminal on this receiver to the LAN terminal on your router (with or without the built-in DHCP server function) with a straight LAN cable (CAT 5 or higher).

Turn on the DHCP server function of your router. In case your router does not have the built-in DHCP server function, it is necessary to set up the network manually. For details, see *Setting the IP address* on page 45 .

❖ LAN terminal specifications

LAN terminal: Ethernet jack (10BASE-T/100BASE-TX)

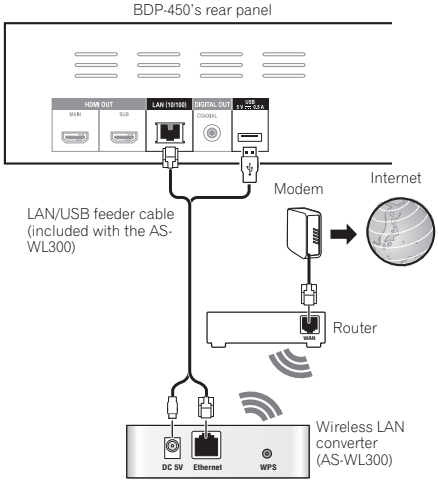
Note

- Refer to the operation manual of the equipment you have as the connected equipment and connection method may differ depending on your Internet environment.
- When using a broadband Internet connection, a contract with an Internet service provider is required. For more details, contact your nearest Internet service provider.

Connecting to a wireless LAN

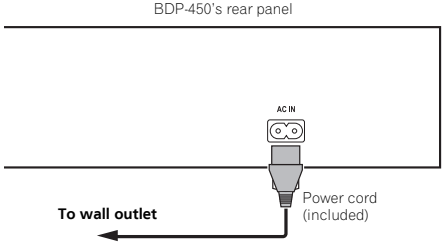
Wireless connection to the network is possible through a wireless LAN connection. Use the separately sold AS-WL300 for connection.

- Refer to the operating instructions of AS-WL300 for the setting details.



Connecting the power cord

Connect the power cord after all the connections between devices have been completed.



Chapter 3
Getting Started

Making settings using the Setup Navigator menu

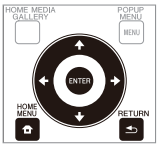
Be sure to perform these settings when using the player in the following situations.

- When you use the player for the first time.
- After **Initial Setup** format.
- After updating the player's software.

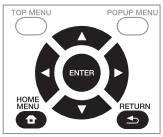
Caution

- Before turning on the power, check that the connections between the player and other devices are correct. Also, turn on the power of the devices connected to the player before turning on the player's power.
- When using a Pioneer Flat Screen TV or front projector compatible with the Control function, set Control to On on the connected device before turning on the player's power.

BDP-450



BDP-150



1 Turn on the TV's power and switch the input.
See the TV's operating instructions for the details of operating the TV.

2 Turn on the player's power.
Press ⏻ **STANDBY/ON**.

Check that the **Setup Navigator** menu is displayed.

❖ If the Setup Navigator menu is not displayed

▶ **Press HOME MENU to display the Home Menu, select Initial Setup → Setup Navigator → Start, then press ENTER.**

3 Start Setup Navigator.
Press **ENTER**.

- **Setup Navigator** starts.

4 Select the OSD language.
Use ↑/↓ to select, then press **ENTER**.

When a Pioneer Flat Screen TV that is compatible with Control function is connected to this player's **HDMI OUT** terminal, language settings are imported from the Pioneer Flat Screen TV's language settings before **Setup Navigator** begins.

5 Select the appropriate output resolution for the connected TV.
Use ↑/↓ to select, then press **ENTER**.

6 Select the appropriate aspect for the connected TV.
Use ↑/↓ to select, then press **ENTER**.

7 Close the Setup Navigator menu.
Press **ENTER**.

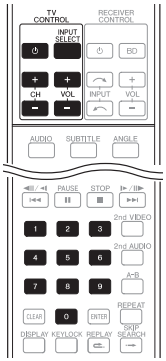
- **Setup Navigator** finishes and the setting is stored.
- Press **RETURN** to go back to the previous screen.

Operating the TV with the player's remote control (BDP-450 only)

When the manufacturer code for your brand of TV is set on the player's remote control, the TV can be operated using the player's remote control.

Caution

- For some models it may not be possible to operate the TV with the player's remote control, even for TVs of brands listed on the manufacturer code list.
- The setting may be restored to the default after the batteries are replaced. If this happens, reset it.



1 Input the 2-digit manufacturer code.
Press the number buttons (0 to 9) to input the code while pressing **TV CONTROL** ⏻.

Note

- The factory default setting is 00 (PIONEER).
- If you make a mistake when inputting the code, release **TV CONTROL** ⏻ then start over from the beginning.
- When there are multiple codes for a manufacturer, try inputting them in the indicated order until the TV can be operated.

2 Check that the TV can be operated.
Operate the TV using **TV CONTROL**.

⏻ – Press to turn the TV's power on and off.

INPUT SELECT – Press to switch the TV's input.

CH +/– – Press to select the TV channel.

VOL +/– – Press to adjust the volume.

TV Preset code list

Manufacturer Code(s)

PIONEER 00, 31, 32, 07, 36, 42, 51, 22
ACURA 44
ADMIRAL 31
AIWA 60
AKAI 32, 35, 42
AKURA 41
ALBA 07, 39, 41, 44
AMSTRAD 42, 44, 47
ANITECH 44
ASA 45
ASUKA 41
AUDIOGONIC 07, 36
BASIC LINE 41, 44
BAUR 31, 07, 42
BEKO 38
BEON 07
BLAUPUNKT 31
BLUE SKY 41
BLUE STAR 18
BPL 18
BRANDT 36
BTC 41
BUSH 07, 41, 42, 44, 47, 56
CASCADE 44
CATHAY 07
CENTURION 07
CGB 42
CIMLINE 44
CLARIVOX 07
CLATRONIC 38
CONDOR 38
CONTEC 44
CROSLEY 32
CROWN 38, 44
CRYSTAL 42
CYBERTRON 41
DAEWOO 07, 44, 56
DAINICHI 41
DANSAI 07
DAYTON 44
DECCA 07, 48
DIXI 07, 44
DUMONT 53
ELIN 07
ELITE 41
ELTA 44
EMERSON 42
ERRES 07
FERGUSON 07, 36, 51
FINLANDIA 35, 43, 54
FINLUX 32, 07, 45, 48, 53, 54
FIRSTLINE 40, 44
FISHER 32, 35, 38, 45
FORMENTI 32, 07, 42
FRONTECH 31, 42, 46
FRONTECH/PROTECH 32
FUJITSU 48
FUNAI 40, 46, 58
GBC 32, 42
GE 00, 01, 08, 07, 10, 11, 17, 02, 28, 18
GEC 07, 34, 48
GELOSO 32, 44
GENERAL 29
GENEXXA 31, 41
GOLDSTAR 10, 23, 21, 02, 07, 50
GOODMANS 07, 39, 47, 48, 56
GORENJE 38
GPM 41
GRAETZ 31, 42
GRANADA 07, 35, 42, 43, 48
GRADIENTE 30, 57
GRANDIN 18
GRUNDIG 31, 53
HANSEATIC 07, 42
HCM 18, 44
HINARI 07, 41, 44
HISAWA 18
HITACHI 31, 33, 34, 36, 42, 43, 54, 06, 10, 24, 25, 18
HUANYU 56
HYPSON 07, 18, 46
ICE 46, 47
IMPERIAL 38, 42
INDIANA 07
INGELEN 31
INTERFUNK 31, 32, 07, 42
INTERVISION 46, 49
ISUKAI 41
ITC 42
ITT 31, 32, 42
JEC 05
JVC 13, 23
KAISUI 18, 41, 44
KAPSCH 31
KENDO 42
KENNEDY 32, 42
KORPEL 07
KOYODA 44
LEYCO 07, 40, 46, 48
LIESENK&TTER 07
LOEWE 07
LUXOR 32, 42, 43
M-ELECTRONIC 31, 44, 45, 54, 56, 07, 36, 51
MAGNADYNE 32, 49
MAGNAFON 49
MAGNAVOX 07, 10, 03, 12, 29
MANESTH 39, 46
MARANTZ 07
MARK 07
MATSUI 07, 39, 40, 42, 44, 47, 48
MCMICHAEL 34
MEDIATOR 07
MEMOREX 44
METZ 31
MINERVA 31, 53
MITSUBISHI 09, 10, 02, 21, 31
MULTITECH 44, 49
NEC 59
NECKERMANN 31, 07
NEI 07, 42
NIKKAI 05, 07, 41, 46, 48
NOBLIKO 49
NOKIA 32, 42, 52
NORDMENDE 32, 36, 51, 52
OCEANIC 31, 32, 42
ORION 32, 07, 39, 40
OSAKI 41, 46, 48
OSO 41
OSUME 48
OTTO VERSAND 31, 32, 07, 42
PALLADIUM 38
PANAMA 46
PANASONIC 31, 07, 08, 42, 22
PATHO CINEMA 42
PAUSA 44

PHILCO 32, 42
PHILIPS 31, 07, 34, 56, 68
PHOENIX 32
PHONOLA 07
PROFEX 42, 44
PROTECH 07, 42, 44, 46, 49
QUELLE 31, 32, 07, 42, 45, 53
R-LINE 07
RADIOLA 07
RADIOSHACK 10, 23, 21, 02
RBM 53
RCA 01, 10, 15, 16, 17, 18, 61, 62, 09
REDIFFUSION 32, 42
REX 31, 46
ROADSTAR 41, 44, 46
SABA 31, 36, 42, 51
SAISHO 39, 44, 46
SALORA 31, 32, 42, 43
SAMBERS 49
SAMSUNG 07, 38, 44, 46, 69, 70
SANYO 35, 45, 48, 21, 14, 91
SBR 07, 34
SCHAUB LORENZ 42
SCHNEIDER 07, 41, 47
SEG 42, 46
SEI 32, 40, 49
SELECO 31, 42
SHARP 02, 19, 27, 67, 90
SIAREM 32, 49
SIEMENS 31
SINUDYNE 32, 39, 40, 49
SKANTIC 43
SOLAVOX 31
SONOKO 07, 44
SONOLOR 31, 35
SONTEC 07
SONY 04
SOUNDWAVE 07
STANDARD 41, 44
STERN 31
SUSUMU 41
SYSLINE 07
TANDY 31, 41, 48
TASHIKO 34
TATUNG 07, 48
TEC 42
TELEAVIA 36
TELEFUNKEN 36, 37, 52
TELETECH 44
TENSAI 40, 41
THOMSON 36, 51, 52, 63
THORN 31, 07, 42, 45, 48
TOMASHI 18
TOSHIBA 05, 02, 26, 21, 53
TOWADA 42
ULTRAVOX 32, 42, 49
UNIDEN 92
UNIVERSUM 31, 07, 38, 42, 45, 46, 54
VESTEL 07
VICTOR 13
VOXSON 31
WALTHAM 43
WATSON 07
WATT RADIO 32, 42, 49
WHITE WESTINGHOUSE 07
YOKO 07, 42, 46
ZENITH 03, 20

Chapter 4
Playback

Playing discs or files

This section describes the player's main operations.

For the types of discs and files that can be played, see page 7. Video, image and audio files recorded on discs are played with the Home Media Gallery (page 35).

1 Press ⏻ STANDBY/ON to turn on the power.
Turn the TV's power on and switch its input beforehand.

2 Press ⏏ OPEN/CLOSE to open the disc tray and load the disc.

Note

- Load the disc with the printed side facing up.
- Several dozen seconds are required to read the disc. Once reading is completed, the type of disc is displayed on the player's front panel display.
- When a BD with usage restrictions set by a BD recorder is loaded, the PIN code input screen appears. In this case, input your PIN code.

3 Press ▶ PLAY to play the disc.
- To pause, press ❚❚ **PAUSE** during playback.
- To stop, press ■ **STOP** during playback.

Note

- Some discs start playing automatically when the disc tray is closed.
- DVD-Video discs have parental lock features. Input the password registered in the player's settings to unlock the parental lock. For details, see page 46.

❖ If the disc menu is displayed

For some discs, the disc menu is displayed automatically when playback starts. The contents of the disc menu and the way to operate depend on the disc.

❖ Resuming playback from where it was stopped (resume playback function)

- When ■ **STOP** is pressed during playback, the point at which the disc stopped is stored in the memory. When ▶ **PLAY** is pressed after that, playback resumes from that point.
- To cancel the resume playback function, press ■ **STOP** while playback is stopped.

Note

- The resume playback function is canceled automatically in the following cases:
  - When the disc tray is opened.
  - When the file list window is switched.
  - When the power is turned off. (For BDs and DVDs this does not cancel the resume playback function.)
- When you want to continue playback from a position you specify to be played next time, see *Continuing playback from a specified position (Continued Viewing Playback)* on page 34.
- The resume playback function cannot be used for some discs.

Forward and reverse scanning

▶ **During playback, press ◀◀ REV or ▶▶ FWD.**
- The scanning speed switches each time the button is pressed. The speed steps depend on the disc or file (the speed is displayed on the TV screen).

❖ To resume normal playback

▶ **Press ▶ PLAY.**

Playing specific chapters, tracks or files

▶ **During playback, input the number of the chapter/track/file you want to select.**
- Use the number buttons (0 to 9) to input the number, then press **ENTER**.
- Press **CLEAR** to clear the values you have input.

Skipping content

▶ **During playback, press ⏮ or ⏭.**
- When ⏭ is pressed, the playback skips ahead to the beginning of the next chapter/track/file.
- When ⏮ is pressed while a video or audio file is playing, the playback skips back to the beginning of the currently playing chapter/track/file. Press twice to skip back to the beginning of the previous chapter/track/file.
- When ⏮ is pressed while an image file is playing, playback returns to the previous file.

Playing in slow motion

▶ **While playback is paused, press and hold ◄II/◄I or I►/II►.**
- The speed switches each time the button is pressed (the speed is displayed on the TV screen).

❖ To resume normal playback

▶ **Press ► PLAY.**

Step forward and step reverse

▶ **While playback is paused, press ◄II/◄I or I►/II►.**
- The picture moves a step forward or reverse each time the button is pressed.

❖ To resume normal playback

▶ **Press ► PLAY.**

Playing a specific section within a title or track repeatedly (A-B Repeat)

Use this procedure to play a specific section within a title or track repeatedly.

1 During playback, press A-B to select the starting point.
- **A-** is displayed on the TV screen.

2 During playback, press A-B to select the ending point.
- A-B Repeat playback starts.

❖ To cancel A-B Repeat play

- Press **A-B** during the A-B Repeat play.

Note

- A-B Repeat play is canceled in the following cases:
  - When you search outside of the repeat range.
  - When you start other Repeat Play or Random Play.
  - When you have searched using the **FUNCTION** menu.

Playing repeatedly (Repeat Play)

Use this procedure to play the currently playing disc, title, chapter, track or file repeatedly.

▶ **During playback, press REPEAT.**
- Each time you press **REPEAT** the type of repeat modes changes as shown below.

BD
Current chapter → Current title

DVD
Current chapter → Current title → All titles

CD/Video file/Audio file/Image file
Current track/file → All tracks/All files in folder

❖ To cancel Repeat Play

- Press **REPEAT** several times during Repeat Play.

Note

- Repeat Play is canceled in the following cases:
  - When you search outside the repeat range.
  - When you start other Repeat Play or Random Play.
  - When you have searched using the **FUNCTION** menu.

Playing in the desired order (Programmed Play)

1 During playback, press PROGRAM.
- The program screen is displayed.

2 Select the program number.
Use ↑/↓ to select, then press **ENTER**.

3 Select the title you want to play.
Use ↑/↓ to select, then press ➡.

4 Select the chapter you want to play.
Use ↑/↓ to select, then press **ENTER**.

5 Press ► PLAY.
- Playback starts.

❖ Editing the program

1 Select the program number you want to edit, then press ENTER.

2 Select title/chapter, then press ENTER.

❖ Deleting the program

▶ **Select the program number you want to delete, then press CLEAR.**
- To delete all the programs, press ⮌ **RETURN**.

Note

- When you use audio CDs for Programmed Play, enter the track number in step **3**.
- This function does not work with BDs.

Making bookmarks

You can make bookmarks on the video currently playing and play back the scene later.

▶ **During playback, press BOOKMARK.**
- The bookmark is made.
- Maximum number of bookmarks are 12.

❖ Playing the bookmarked scene

1 Press and hold BOOKMARK for a few seconds.
- The list of bookmarks is displayed.

2 Select the bookmark you want to play.
Use ⬅/➡ to select, then press **ENTER**.

❖ Deleting the bookmark

▶ **Select the bookmark you want to delete, then press CLEAR.**
- Bookmarks may not be allowed to make for some discs.
- Bookmarks are canceled in the following cases:
  – When the player's power turned off.
  – When the disc tray is opened.

Zoom

▶ **During playback, press ZOOM.**
- Each time you press **ZOOM**, the zoom level changes as shown below.

  [Zoom 2x] ➞ [Zoom 3x] ➞ [Zoom 4x] ➞ [Zoom 1/2] ➞ [Zoom 1/3] ➞ [Zoom 1/4] ➞ Normal (not displayed)

Note

- This function does not work with some discs.

Playing photos as slideshows

This function plays the photos, switching them automatically.

▶ **During playback, press INDEX.**
- Display the thumbnail of image files. The maximum number is 12 at once.
- If you select one of the image and press **ENTER**, slideshow will start from the image you selected.

❖ Rotating/inverting photos

When a slideshow is playing or paused, the display switches as shown below when the ⬆/⬇/⬅/➡ buttons are pressed.

➡ button: Rotates 90° clockwise

⬅ button: Rotates 90° counterclockwise

⬆ button: Flips horizontally

⬇ button: Flips vertically

Switching the camera angles

For BD-ROM and DVD-Video discs on which multiple angles are recorded, the angles can be switched during playback.

▶ **During playback, press ANGLE.**
- The current angle and total number of recorded angles are displayed on the TV screen. To switch the angles, press **ANGLE** again.
- The angles can also be switched by selecting **Angle** from the **FUNCTION** menu.
- If the angles are not switched when **ANGLE** is pressed, switch them from the disc menu screen.

Switching the subtitles

For discs or files on which multiple subtitles are recorded, the subtitles can be switched during playback.

Caution

- The subtitles cannot be switched for discs recorded by a DVD or BD recorder. Also refer to the operating instructions for the device used for recording.

▶ **During playback, press SUBTITLE.**
- The current subtitle and total number of recorded subtitles are displayed on the TV screen. To switch the subtitle, press **SUBTITLE** again.
- The subtitles can also be switched by selecting **Subtitle** from the **FUNCTION** menu.
- If the subtitles are not switched when **SUBTITLE** is pressed, switch them from the disc menu screen.

❖ Turning the subtitles off

▶ **Press SUBTITLE several times or select Subtitle from the FUNCTION menu to switch the setting to Off.**

❖ About displaying external subtitle files while playing DivX media files

In addition to the subtitles recorded in DivX media files, this player also supports the display of external subtitle files. If a file has the same name as that of a DivX media file aside from the file extension and the extension is one of the extensions listed below, the file is treated as an external subtitle file. Note that DivX media files and external subtitle files must be located in the same folder. Only one external subtitle file can be displayed on this player. Use a computer, etc., to delete any external subtitle files you do not want to display from the disc.

Note

- Depending on the file, the external subtitles may not be displayed properly.

Switching the audio

For discs or files on which multiple audio streams/channels are recorded, audio streams/channels can be switched during playback.

▶ **During playback, press AUDIO.**

- The current audio and total number of recorded audio streams are displayed on the TV screen.
  To switch the audio, press **AUDIO** again.
- The audio can also be switched by selecting **Audio** from the **FUNCTION** menu.
- If the audio is not switched when **AUDIO** is pressed, switch it from the disc menu screen.

Switching the secondary audio (BDP-450 only)

Use this procedure to switch the secondary audio for BD-ROMs on which secondary audio is recorded.

▶ **During playback, press 2nd AUDIO.**

- The current audio and total number of recorded audio streams are displayed on the TV screen.
  To switch the audio, press **2nd AUDIO** again.
- The secondary audio can also be switched by selecting **Secondary Audio** from the **FUNCTION** menu.
- If the secondary audio is not switched when **2nd AUDIO** is pressed, switch it from the disc menu screen.

❖ Turning the Secondary Audio off

▶ **Press 2nd AUDIO several times or select Secondary Audio from the FUNCTION menu to switch the setting to Off.**

Switching the secondary video (BDP-450 only)

Use the procedure below to switch the secondary video (Picture-in-Picture) recorded on the BD-ROM.

▶ **During playback, press 2nd VIDEO.**

- The current secondary video and total number of recorded secondary video streams are displayed on the TV screen.
  To switch the secondary video, press **2nd VIDEO** again.

Primary audio/video Secondary audio/video

- The secondary video can also be switched by selecting **Secondary Video** from the **FUNCTION** menu.
- If the secondary video is not switched when **2nd VIDEO** is pressed, switch it from the disc menu screen.

❖ Turning the Secondary Video off

▶ **Press 2nd VIDEO several times or select Secondary Video from the FUNCTION menu to switch the setting to Off.**

Switching the CD/SACD playback area

1 Select the area you want to play.

In the stop mode, press **CD/SACD**. The playback area switches on the front panel display window each time the button is pressed.

[CD AREA] → [SACD 2CH] → [SACD MCH] → (back to beginning)

- During playback, press ■ **STOP** twice to cancel continuous play before selecting the playback area.
- For the BDP-150, after selecting the playback area, press ⏏ **OPEN/CLOSE** to open or close the disc tray. Once the disc is loaded, the playback area switches.

Displaying the disc information

▶ **Press DISPLAY.**

The disc information appears on the TV screen. To switch off the information display, press **DISPLAY** again.

The information display differs between during playback and when playback is stopped.

Enjoying BONUSVIEW or BD-LIVE

This player is compatible with BD-Video BONUSVIEW and BD-LIVE.

When using BD-Video discs compatible with BONUSVIEW, you can enjoy such functions as secondary video (picture in picture) (page 33) and secondary audio (page 33). With BD-Video discs supporting BD-LIVE, special video images and other data can be downloaded from the Internet.

Data recorded on BD video and downloaded from BD-LIVE is stored on the USB flash drive (external memory). To enjoy these functions, connect a USB flash drive (minimum 1 GB capacity, 2 GB or greater recommended) supporting USB 2.0 High Speed (480 Mbit/s) to the USB port.

- When you insert or remove a USB flash drive, be sure to turn the player's power off.
- To recall data stored in the USB flash drive, first insert the disc media that was being used at the time the data was downloaded (if a different disc is loaded, the data stored on the USB flash drive cannot be played).
- If a USB flash drive containing other data (previously recorded) is used, the video and audio may not play back properly.
- Do not disconnect the USB flash drive while playback is in progress.
- Some time may be required for the data to load (read/write).

Caution

- It may not be possible to use the BONUSVIEW and BD-LIVE functions if there is insufficient space on the USB flash drive. In this case, refer to *Erasing data that has been added to BDs and application data* on page 45 for erasing the Virtual Package data and the BD-LIVE data in the USB flash drive.

Note

- Operation of USB flash drives is not guaranteed.
- Playback of BD-LIVE function data differs depending on the disc used. For details, consult the user instructions supplied with the disc.
- To enjoy the BD-LIVE function, a network connection and settings are required (pages 23 and 45).
- BD-LIVE is a function that provides for connection to the Internet. Discs supporting the BD-LIVE function may send ID codes identifying this player and the disc to the contents provider via the Internet.

Playback functions

The functions that can be used differ according to the type of disc and file. In some cases, some of the functions cannot be used. Check the usable functions on the table below.

Function[1]	Disc/file type										
	BD-ROM	BD-R /-RE	DVD-Video	DVD-Audio[2]	DVD-R /-RW (VR format)	AVCREC	AVCHD	Video file	Image file	Audio file	Audio CD
Forward and reverse scanning[3]	✓[4]	✓[4]	✓[4]	✓[5]	✓[4]	✓[4]	✓[4]	✓[4]	✗	✓[5]	✓[5]
Playing specific titles, chapters or tracks	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✓
Skipping content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Slow motion play[3, 6]	✓	✓	✓	✗	✓	✓	✓	✓[7]	✗	✗	✗
Step forward and step reverse[3]	✓	✓	✓	✗	✓	✓	✓	✓[8]	✗	✗	✗
A-B Repeat play[3]	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓
Repeat Play	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zoom	✓	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗
Angle[9]	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
Subtitle[10]	✓	✓	✓	✗	✓	✓	✓	✓	✗	✗	✗
Audio[11]	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
Secondary audio[2, 12]	✓[13]	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Secondary video[2, 14]	✓[15]	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Disc information	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

1. Some functions may not work for some discs or files, even if indicated [✓] on the table.
2. BDP-450 only.
3. For some discs, normal playback resumes automatically when the chapter switches.
4. No sound is produced during forward and reverse scanning.
5. Sound is produced during forward and reverse scanning.
6. • No sound is output during slow motion playback.
   • It is not possible to switch the speed during reverse slow motion playback.
7. Reverse slow motion playback is not possible.
8. Reverse step playback is not possible.
9. Angle mark is displayed for scenes at which multiple angles are recorded if **Angle Mark** is set to **On** (page 43).
10. • The types of recorded subtitles depend on the disc and file.
    • In some cases, the subtitle may switch or the switching screen provided on the disc may be displayed immediately, without the current subtitle or the total number of subtitles recorded on the disc being displayed.
11. The types of recorded audio streams depend on the disc and file.
12. • The types of recorded secondary audio streams depend on the disc and file.
    • In some cases, the secondary audio may switch or the switching screen provided on the disc may be displayed immediately, without the current secondary audio or the total number of secondary audio streams recorded on the disc being displayed.
    • Secondary audio mark is displayed for scenes at which secondary audio is recorded if **Secondary Audio Mark** is set to **On** (page 43).
13. Some discs do not include secondary audio.
14. • In some cases, the secondary video may switch or the switching screen provided on the disc may be displayed immediately, without the current secondary video or the total number of secondary video streams recorded on the disc being displayed.
    • Secondary video mark is displayed for scenes at which secondary video is recorded if **PIP Mark** is set to **On** (page 43).
15. Some discs do not include secondary video.

Using the FUNCTION menu

Various functions can be called out according to the player's operating status.

1 Display the FUNCTION menu.
Press **FUNCTION** during playback.

2 Select and set the item.
Use ⬆/⬇ to select, then press **ENTER**.

Note

- Items that cannot be changed are displayed in gray. The items that can be selected depend on the player's status.

❖ To change the setting of the selected item

Use ⬆/⬇ to change.

❖ To close the FUNCTION menu

Press **FUNCTION**.

❖ FUNCTION menu item list

Item	Description
Video Adjust (BDP-450)	The main unit settings' picture quality adjustment items can be selected (page 44).
Title	Display the title information for the currently playing disc and total number of titles on the disc. Also select the title you want to play. (See the following description.)
Chapter (track/file)[1]	Display the information for the currently playing chapter (track/file) and total number of chapters in the disc. Also select the chapter (track/file) you want to play. (See the following description.)
Time	Display the elapsed or remaining time. Also enter the time from which you want to start playback. (See the following description.)
Mode	Switch the play mode (page 34).
Audio	Switch the audio.
Angle	Switch the BD-ROM/DVD-Video disc's camera angle.
Subtitle	Switch the subtitle language.
Code Page	Switch the subtitle code page.
Secondary Video[2]	Switch the BD-ROM's secondary video (Picture-in-Picture).
Secondary Audio[3]	Switch the BD-ROM's secondary audio.
Bitrate	Display the bitrate of the audio/video/secondary video/secondary audio.
Still off	Switch off the BD-ROM's still picture.
Ins Search	Skip forward 30 seconds.
Ins Replay	Skip backward 10 seconds.
Slide Show	Switch the playback speed while playing the picture slide show.
Transition	Change the style of the slide show while playing the picture slide show.

1. One of these types of information is displayed, depending on the type of disc.
2. Secondary video mark is displayed for scenes at which secondary video is recorded if **PIP Mark** is set to **On** (page 43).
3. Secondary audio mark is displayed for scenes at which secondary audio is recorded if **Secondary Audio Mark** is set to **On** (page 43).

Note

- Selectable items depend on the type of disc.
- The types of recorded secondary audio streams depend on the disc and file.
- Some discs do not include secondary audio/secondary video.
- In some cases, the secondary audio/secondary video may switch or the switching screen provided on the disc may be displayed immediately, without the current secondary audio/secondary video or the total number of secondary audio/secondary video streams recorded on the disc being displayed.

Playing from a specific time (Time Search)

1 Select Time.
Use ↑/↓ to select, then press **ENTER**.

2 Input the time.
Use the number buttons (0 to 9) to input the time.

- To play from 45 minutes, input **0**, **0**, **4**, **5**, **0** and **0**, then press **ENTER**.
- To play from 1 hour 20 minutes, input **0**, **1**, **2**, **0**, **0** and **0**, then press **ENTER**.
- Press **CLEAR** to clear the values you have input.

3 Starting playback from the specified time.
Press **ENTER**.

Playing a specific title, chapter, track or file (Search)

1 Select Title or Chapter (track/file).
Use ↑/↓ to select, then press **ENTER**.

2 Input the Title or Chapter (track/file) number.
Use the number buttons (0 to 9) or ↑/↓ to input the number.

- To search for title 32, input **3** and **2**, then press **ENTER**.
- Press **CLEAR** to clear the values you have input.

3 Starting playback from the specified title, chapter or track.
Press **ENTER**.

Continuing playback from a specified position (Continued Viewing Playback)

This function allows you to continue playback from a position you specify to be played next time, even after turning the power off.

❖ Setting

▶ **During playback, press CONTINUED at the position from which you want to start continued viewing playback.**
The elapsed playing time at the specified position is displayed on the TV screen.

❖ Playing

1 Press ▶ PLAY to play the title for which you have set continued viewing playback.
The continued viewing playback confirmation screen appears.

2 Use ←/→ to select Yes, then press ENTER.
Playback starts from the specified position.

Note

- The continued viewing playback setting is canceled when ⏏ **OPEN/CLOSE** is pressed.
- Continued viewing playback may not work properly with some discs.

Playing specified range of discs, titles or chapter (track/file) in random order

You can select from two types of random playback.

1 Select Mode.
Use ↑/↓ to select, then press **ENTER**.

2 Select the playing mode.
Use ↑/↓ to select, then press **ENTER**.

❖ Random play

The specified range of discs, titles or chapter (track/file) is played in random order. The same item may be played consecutively.

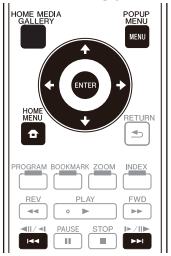
❖ Shuffle play

The specified range of discs, titles or chapter (track/file) is played in random order. Each item is played once.

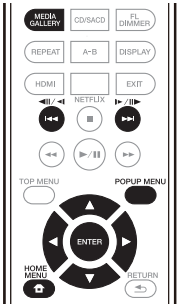
Chapter 5

Playback from Home Media Gallery

BDP-450



BDP-150



About Home Media Gallery

This player's Home Media Gallery function allows you to display a list of input sources and start playback. This chapter describes setup and playback procedures required to enjoy these features. When you play the files stored on your computer or the components on the network, it is advisory that you also refer to the operation manual supplied with your network component.

The input sources that can be played from Home Media Gallery are as shown below.

- BD-R/RE (BDAV format) discs
- DVD-R/RW (VR format) discs
- Audio CDs (CD-DA, SACD and DTS CDs)
- DVD/CDs on which only data files of video, image or audio files, etc. are recorded.
- USB device
- Files on the network servers (on the PCs or components connected to the player via LAN interface.)

Note

- The Home Media Gallery allows you to play files on media servers connected on an identical Local Area Network (LAN) as the receiver.
- The following files are allowed to be played from Home Media Gallery:
  - PCs running Microsoft Windows Vista or XP with Windows Media Player 11 installed
  - PCs running Microsoft Windows 7 with Windows Media Player 12 installed
  - DLNA-compatible digital media servers (on PCs or other components)

  Files stored in a PC or DMS (Digital Media Server) as described above can be played by Digital Media Player (DMP). The player supports the use of such DMP.

  Files stored in a PC or DMS (Digital Media Server) as described above can be played via command from an external Digital Media Controller (DMC). Devices controlled by this DMC to play files are called DMRs (Digital Media Renderers). This player supports this DMR function. When in the DMR mode, such operations as playing and stopping files can be performed from the external controller.
- To play back audio files stored on components on the network, you must turn on the DHCP server function of your router. In case your router does not have the built-in DHCP server function, it is necessary to set up the network manually. Otherwise, you cannot play back files stored on components on the network. See page 45.

About network playback

The network playback function of this unit uses the following technologies:

❖ Windows Media Player

See Windows Media Player 11/Windows Media Player 12 above for more on this.

❖ DLNA

DLNA CERTIFIED® Audio Player

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.5. When a PC running DLNA server software or a DLNA compatible device is connected to

this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

DLNA®, the DLNA Logo and DLNA CERTIFIED® are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

❖ Content playable over a network

- Even when encoded in a compatible format, some files may not play correctly.
- Some functions may not be supported depending on the server type or version used.
- Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit. For more information check with the manufacturer of your server.

❖ Disclaimer for Third Party Content

Access to content provided by third parties requires a high speed Internet connection and may also require account registration and a paid subscription.

Third party content services may be changed, suspended, interrupted, or discontinued at any time without notice, and Pioneer disclaims any liability in connection with such occurrences.

Pioneer does not represent or warrant that content services will continue to be provided or available for a particular period of time, and any such warranty, express or implied, is disclaimed.

❖ About playback behavior over a network

- Playback may stall when the PC is switched off or any media files stored on it are deleted while playing content.
- If there are problems within the network environment (heavy network traffic, etc.) content may not be displayed or played properly (playback may be interrupted or stalled). For best performance, a 10BASE-T/100BASE-TX connection between the player and the PC is recommended.
- If several clients are playing simultaneously, as the case may be, playback is interrupted or stalled.
- Depending on the security software installed on a connected PC and the setting of such software, network connection may be blocked.

Pioneer is not responsible for any malfunction of the player and/or the Home Media Gallery features due to communication errors/malfunctions associated with your network connection and/or your PC, or other connected equipment. Please contact your PC manufacturer or Internet service provider.

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Playback file on the network

1 Press HOME MEDIA GALLERY to display the Home Media Gallery.
The Home Media Gallery can also be displayed by selecting **Home Media Gallery** from Home Menu, then pressing **ENTER**.

2 Select the server which contains the file you want to play.

3 Select the file you want to play.
Use ↑/↓ to select, then press **ENTER**.

❖ To end Home Media Gallery

▶ **Press HOME MEDIA GALLERY.**

Note

- If you are unable to display the servers on the Home Media Gallery screen, select **DLNA Search** and press **ENTER**.

Disc/USB playback

1 Press HOME MEDIA GALLERY to display the Home Media Gallery.
The Home Media Gallery can also be displayed by selecting **Home Media Gallery** from Home Menu, then pressing **ENTER**.

2 Select Disc or USB.
Use ↑/↓ to select, then press **ENTER**.

3 Select Photo/Music/Video/AVCHD.
Use ↑/↓ to select, then press **ENTER**.

- This step is not for the discs that have been recorded with BDAV/VR/AVCREC format.
- To play files in AVCHD format on a USB device, create a folder named “AVCHD” on the USB device, then copy the “BDMV” folder containing which the files to be played into the “AVCHD” folder.

4 Select the title/track or file you want to play.
Use ↑/↓ to select, then press **ENTER**.

Playback starts from the selected title/track or file.

- If the file you want to play is in the folder, select the folder that contains the file first.

Playing back image files

❖ About Slideshow

A display of the files on the disc or in the folder switches automatically.

Note

- When playing an audio CD (CD-DA/SACD/DTS-CD), the Now Playing screen is displayed.
- Some BD-R/-RE discs have playback protection. To cancel the protection, input the password set for the disc.
- It may take a few seconds before playback starts. This is normal.
- It may not be possible to play some files properly.
- The number of views may be restricted.
- Depending on the connected devices and conditions, some time may be required for playback to start and for the image to switch.

Playing in the desired order (Playlist)

The discs that can add tracks and files to the **Playlist** are as shown below.

- DVDs/CDs/USB devices on which audio files are recorded

Adding tracks/files

Use this procedure to add tracks and files, and create the **Playlist**.

1 Press HOME MEDIA GALLERY to display the Home Media Gallery.
The Home Media Gallery can also be displayed by selecting **Home Media Gallery** from Home Menu, then pressing **ENTER**.

2 Select Disc or USB.
Load the disc beforehand.

Use ↑/↓ to select, then press **ENTER**.

3 Select the track/file to be added.
Use → to select.

4 Press POP UP MENU to display the POP UP MENU menu.

5 Select Add to Playlist to add to Playlist.
Use ↑/↓ to select, then press **ENTER**.

The track or file selected in step **3** is added to the **Playlist**.

- To add more tracks or files, repeat steps **3** to **5**.

Playing the Playlist

1 Press HOME MEDIA GALLERY to display the Home Media Gallery.
The Home Media Gallery can also be displayed by selecting **Home Media Gallery** from Home Menu, then pressing **ENTER**.

2 Select Playlist.
Use ↑/↓ to select, then press **ENTER**.

3 Select the track/file to be played.
Use ↑/↓ to select, then press **ENTER**.

Playback starts from the selected track/file and continues until the end of the list is reached. Use I◄◄/►►I to play the previous or next track/file. The Now Playing screen is displayed.

Deleting tracks/files from the Playlist

1 Select the track/file to be deleted, then press POP UP MENU to display the POP UP MENU menu.

2 Use ↑/↓ to select Remove from Playlist, then press ENTER.

Chapter 6

Playing the web contents

You can enjoy some streaming contents on the Internet with the player.

Available web contents

- YouTube (MPEG4 AVC H.264)
- Picasa
- Netflix

Note

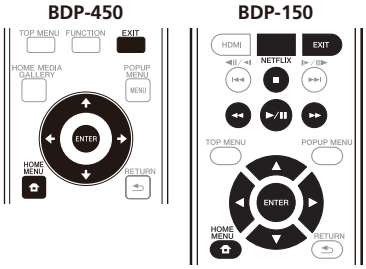
About YouTube

- YouTube videos of the following sizes can be played.
  - Standard quality (400 x 226 pixels, 200 kbps)
  - Medium quality (480 x 360 pixels, 512 kbps)
  - High quality (854 x 480 pixels, 900 kbps)
  - HD (720p) (1280 x 720 pixels, 2 Mbps)
  - HD (1080p) (1920 x 1080 pixels, 4 Mbps)
- This player supports the YouTube Leanback service. The YouTube Leanback service is only available in English for now.
  Refer to YouTube Help at http://www.google.com/support/youtube/ for further information.
- YouTube videos for mobile phones cannot be played.
- Some YouTube videos cannot be played.

About Picasa

- Picasa is available only in English. Refer to instructions at http://picasa.google.com/support/ for details.
  - Register your user name and password on the PC before you use Picasa Web Albums.
  - When you access Picasa from this player for the first time, select the New User icon and enter your registered user name and password.
- Depending on the Internet connection environment, it may not be possible to play web contents properly.
- To access to web contents, this player requires a broadband Internet connection. A contract with an Internet provider is required for a broadband Internet connection.
- Access to content provided by third parties requires a high speed Internet connection and may also require account registration and a paid subscription.
  Third party content services may be changed, suspended, interrupted, or discontinued at any time without notice, and Pioneer disclaims any liability in connection with such occurrences.
  Pioneer does not represent or warrant that content services will continue to be provided or available for a particular period of time, and any such warranty, express or implied, is disclaimed.
- Disc playback and this function cannot be used at the same time.

Playing the items



Caution

You must connect the player to the Internet beforehand. See *Connecting to the network through LAN interface* on page 23 for the details.

1 Display the selection screen.

The selection screen can be selected by pressing **HOME MENU** then selecting Web Contents → Desired web content.

2 Select the type of web contents.
Use ↑/↓ to select, then press **ENTER**.

3 Press ↑/↓ to select the item you want to play, then press ENTER.

To stop playback, press **EXIT**. Playback of the video stops.

❖ Enjoying Netflix

Netflix offers instant streaming to Netflix members with an unlimited streaming account. This function allows you to enjoy Netflix service through the Internet. For more information on Netflix visit **http://www.netflix.com/help/** or login to your Netflix account and click “Help” at the top of the page.

Note

- Netflix is only available in the United States, Canada and the U.K.
- To check Netflix ESN, select Initial Setup → Playback → Netflix Information.

- To deactivate your Netflix information, select Initial Setup → Playback → Netflix Information → Next Screen → Yes.

1 Display the Netflix screen.

Press **Netflix**.

- Or press **HOME MENU** and select Web Contents → Netflix.
- Once you access Netflix, on-screen messages will guide you.

2 Read the Disclaimer displayed on the screen. If you agree, select Agree on the last page. (If you do not agree, this service cannot be used.)

3 Follow the instructions on the screen and select the desired item.

4 After starting playback, you can control playback using ► PLAY/II PAUSE/■ STOP/◄◄ REV/►► FWD.

5 Press EXIT to close the Netflix screen.

Chapter 7

Advanced settings

Changing the settings

Operating the Initial Setup screen

1 When playback is stopped, display the Home Menu screen.

Press **HOME MENU**.

2 Select and set Initial Setup.

Use ⬆/⬇ to select, then press **ENTER**.

3 Select the item and change the setting.

Use ⬆/⬇/⬅/➡ to select, then press **ENTER**.

❖ Closing the Initial Setup screen

Press **HOME MENU** or **RETURN**.

Note

- The items that can be selected depend on the player's status.
- In Options, the factory default settings are indicated in bold.

	Setting	Options	Explanation
Display Setting	TV Screen	16:9 Full	Select this when connecting to a wide (16:9) TV.
		16:9 Normal	Select this when connected to a wide (16:9) TV. 4:3 pictures are displayed with vertical black bars along the sides.
		4:3 Pan&Scan	Select this when connecting to a 4:3 screen TV and playing a 16:9 video. The video will be played with the left and right sides of the image cut off to display on the 4:3 screen. (This function works if the disc is labeled for 4:3PS.)
		4:3 Letterbox	Select this when connecting to a 4:3 screen TV and playing a 16:9 video. The video will be played with black bands at the top and bottom.
	Video Adjust (BDP-150)	The quality of the playback picture can be adjusted according to the TV you are using (page 44).	
	Sharpness (BDP-150)	High	Choose the level of sharpness.
		Middle	
		Low	
	Video Mode (BDP-150)	**Standard**	Choose the video output mode.
		Vivid	
		Cinema	
		Custom	
	• CTI (Color Transient Improvement): Provides images with clearer color contours.		
	Noise Reduction (BDP-150)	**0**	Choose the level of noise reduction.
		1	
		2	
		3	
	Video Adjust (BDP-450)	LCD	Select this when connected to a liquid crystal display.
		PDP	Select this when connected to a plasma TV.
		Projector	Select this when connected to a front projector of another brand.
		Professional	With this setting, video signal processing is restrained. Select this when connected to a professional monitor.
		Custom	Picture quality settings with adjusted parameters can be stored in the memory (page 44).
	Stream Smoother (BDP-450)	**Auto**	Improves the picture quality of network video contents.
		Off	

	Setting	Options	Explanation
Audio Output	Digital Output	Bitstream	Select this to output digital audio signals directly.
		PCM	Select this to output digital audio signals converted to 2-channel audio signals.
		Reencode	When a BD containing secondary audio and interactive audio is played, the two audio signals are mixed and converted to Dolby Digital audio or DTS audio for output.
		Off	Select this to output audio signals other than digital audio signals.
	DTS Downmix	**Stereo**	DTS-HD Master Audio signals, DTS-HD High Resolution Audio signals or DTS Digital Surround audio signals converted to linear PCM audio signals are converted into 2-channel (stereo) signals for output.
		Lt/Rt	DTS-HD Master Audio signals, DTS-HD High Resolution Audio signals or DTS Digital Surround audio signals converted to linear PCM audio signals are converted into 2-channel signals compatible with Dolby Surround for output (when the connected AV receiver or amplifier, etc., is compatible with Dolby Pro Logic, the AV receiver or amplifier outputs the linear PCM audio signals as surround audio signals).
	Downsampling	**48k**	Outputs audio signals that are limited to a sampling frequency below the set sampling frequency from the **DIGITAL OUT** terminal. Select according to the performance of the connected device.
		96k	
		192k	
	• Sources with sampling frequencies of over 192 kHz cannot be played. • When playing copyright-protected discs or files, the signals are output with the sampling frequency limited to 48 kHz or below, regardless of this setting.		
	DRC (Dynamic Range Control)	**Off**	Select this to output audio signals without using the DRC function.
		On	Select this to adjust the range between the loudest and softest sounds (dynamic range) for playback at average volume. Use this when it is hard to hear dialog or when watching movies at midnight.
		Auto	Select to switch the DRC setting On/Off automatically according to the input audio signal from the disc. This only affects Dolby TrueHD signals.
	• This affects such audio signals as Dolby Digital, Dolby TrueHD, and Dolby Digital Plus. • DRC affects audio signals output from the following audio output terminals: – Analog audio signals output from the **AUDIO OUT** terminals (BDP-150 only) – Linear PCM audio signals output from the **DIGITAL OUT** or **HDMI OUT** terminals • Depending on the disc, the effect may be weak. • The effect may differ depending on the speakers, the AV amplifier settings, etc.		
HDMI	HDMI Mode (BDP-450)	**Dual**	Video and audio are output simultaneously from the two **HDMI OUT** terminals. Select this when you want to output video and audio to two TV sets simultaneously.
		Separate	Select this when you want to output the video and audio separately, the video from the **HDMI OUT (MAIN)** terminal, the audio from the **HDMI OUT (SUB)** terminal.
		Pure Audio	Select this to enjoy music only with a better sound quality when devices are connected to both HDMI output terminals. With this setting, music is output from the **HDMI OUT (SUB)** terminal only, and video signals are only output from the **HDMI OUT (MAIN)** terminal when **DISPLAY** is pressed.
	Also refer to *Setting the HDMI Mode (Only for BDP-450)* on page 18.		
	Color Space	RGB	Select this to output the video signals as RGB signals. Choose this if the colors seem too faint and the black seems too bright.
		YCbCr	Select this to output the video signals as YCbCr 4:4:4 signals.
		YCbCr 422	Select this to output the video signals as YCbCr 4:2:2 signals.
		Full RGB	Select this to output the video signals as RGB signals. Choose this if the colors seem too dense and all the dark colors are displayed in a uniform black.
	Resolution	**Auto**	Select this to choose the resolution of the video signals output from the **HDMI OUT** terminal automatically.
		480I/576I (BDP-150 only)	Output the video signals from the **HDMI OUT** terminal with the selected resolution. The resolution can be changed by pressing **HDMI**, but **Auto** cannot be selected. • On the BDP-450, the resolution switches when **HDMI** is pressed and held for over 2 seconds. • On the BDP-150, the resolution switches each time **HDMI** is pressed.
		480P/576P	
		720P	
		1080I	
		1080P	

	Setting	Options	Explanation
HDMI	HDMI Audio Out	Bitstream	Select this to output HDMI audio signals directly.
		PCM	Select this to output HDMI audio signals converted to PCM audio signals.
		Reencode	When a BD containing secondary audio and interactive audio is played, the two audio signals are mixed and converted to Dolby Digital audio or DTS audio for output.
		Off	Select this when you do not want to output the audio signal from the HDMI output terminal.
	Control	**On**	Select this to control the player with the remote control of the connected AV device using an HDMI cable. Also refer to page 18.
		Off	Select this when you do not want to control the player with the remote control of the connected AV device using an HDMI cable.
	To use Sound Retriever Link, Stream Smoother Link and PQLS function (pages 18 and 19), Control must be set to **On**.		
	HDMI Deep Color	30bits	Select this when outputting the video signals with 30-bit color.
		36bits	Select this when outputting the video signals with 36-bit color.
		Off	Select this when outputting the video signals with normal 24-bit color.
	When [30bits] or [36bits] is selected, set the color space (page 41) to a setting other than **YCbCr 422**.		
	HDMI 1080P 24Hz	**On**	Select this when Resolution is set to **Auto** or 1080P and outputting 1080p/24 video signals to a TV compatible with 1080p/24.
		Off	Select this when Resolution is set to 1080P and outputting 1080p/60 video signals to a TV compatible with 1080p/60.
	HDMI 3D	**Auto**	With 3D discs, the disc is played with 3D images.
		Off	3D images are not played.
	3D Notice	**Yes**	This sets whether or not to display the 3D notice when playing 3D images.
		No	
Network	IP Setting	Select this to set the IP address of the player and DNS server (page 45).	
	Proxy Server	Only set the proxy server if so instructed by your Internet service provider (page 45).	
	Information	Displays the values of the MAC address, IP address, subnet mask, default gateway, DNS server (primary) and DNS server (secondary).	
	Connection Test	Select this to test the network connection (page 45).	
	Internet Connection	**Enable**	Select this when connecting to the Internet.
		Disable	Select this when not connecting to the Internet.
	BD-Live Connection	**Permitted**	All discs are allowed to connect to BD-LIVE.
		Partial Permitted	Only discs whose safety has been confirmed are allowed to connect to BD-LIVE.
		Prohibited	No disc is allowed to connect to BD-LIVE.
	DLNA	**Enable**	Select this when connecting to DLNA server.
		Disable	Select this when not connecting to DLNA server.
Language	OSD	available languages	Choose a language for the on-screen displays from the listed languages.
	Audio * For some discs, it may not be possible to change to the selected language.	available languages	Choose a language from the listed languages to set the default audio language for BD-ROM and DVD-Video playback.
	If a language not recorded on the BD/DVD is set, one of the recorded languages is automatically selected for playback.		
	Subtitle * For some discs, it may not be possible to change to the selected language.	available languages	Choose a language from the listed languages to set the default subtitle language for BD-ROM and DVD-Video playback.
	If a language not recorded on the BD/DVD is set, one of the recorded languages is automatically selected for playback.		
	Menu * For some discs, it may not be possible to change to the selected language.	available languages	Choose a language from the listed languages to set the default language for BD-ROM and DVD-Video menus.
	If a language not recorded on the BD/DVD is set, one of the recorded languages is automatically selected for playback.		

	Setting	Options	Explanation
Playback	Angle Mark	On	Select this to display the angle mark on the TV screen (page 29). This is the factory default setting for the BDP-150.
		Off	Select this if you do not want to display the angle mark on the TV screen. This is the factory default setting for the BDP-450.
	PIP Mark	On	Select this to display the PIP mark on the TV screen. This is the factory default setting for the BDP-150.
		Off	Select this if you do not want to display the PIP mark on the TV screen. This is the factory default setting for the BDP-450.
	Secondary Audio Mark	On	Select this to display the secondary audio mark on the TV screen (page 30). This is the factory default setting for the BDP-150.
		Off	Select this if you do not want to display the secondary audio mark on the TV screen. This is the factory default setting for the BDP-450.
	DivX(R) VOD DRM	Registration Code	Displays the player's registration code required to play DivX VOD files (page 10).
	Netflix Information	Activate and deactivate your Netflix information. Also check your Netflix ESN.	
	DVD Playback * This setting is for DVD-Audio disc playback. (BDP-450 only)	**DVD AUDIO**	Select this to play only the audio part on the DVD-Audio disc.
		DVD VIDEO	Select this to play only the video part on the DVD-Audio disc.
	Internet Setting	**Permitted**	Web contents can be watched without entering the password.
		Partial Permitted	The password must be entered to watch web contents.
		Prohibited	No web contents can be watched.
	Disc Auto Playback	**On**	Discs are played automatically after they are loaded.
		Off	Loaded discs do not start playing automatically.
	Last Memory	**On**	Select this to save the point at which you last stopped playback, even after the disc tray is opened or you switch to the standby mode.
		Off	Select this when you want to use only Continue Viewing Play (page 34).
	PBC (Play Back Control)	**On**	Select this to play Video-CDs (version 2.0) compatible with PBC using the disc menu.
		Off	Select this to play Video-CDs (version 2.0) compatible with PBC without using the disc menu.
Setup Navigator		Start making the settings using the Setup Navigator menu. For details, see page 24.	
Security	Change Password	Register (change) the password for parental lock settings or for unlocking to play DVD-Videos with the parental lock feature (page 46). The default password is "0000".	
	Parental Control	Change the player's parental lock level (page 46).	
	Country Code	Change the Country/Area code (page 46).	

Setting	Options	Explanation
Screen Saver	Off	The screen saver is not activated.
	1 min	The screen saver will be activated if no operation has been performed for more than one minute/two minutes/three minutes. Operating the remote control can deactivate the screen saver.
	2 min	
	3 min	
Auto Power Off	Off	Select this if you do not want the power to turn off automatically. This is the default setting for models other than European models.
	10 min	The power will be automatically turned off if no operation has been performed for more than 10 minutes/20 minutes/30 minutes. The default setting for European models is 30 minutes.
	20 min	
	30 min	
Quick Start	On	Select to shorten the required time to boot up.
	Off	Select to perform normal bootup.
Update	Disc	Select the method of software updating. (page 46)
	USB Storage	
	Network	
Load Default	Restore the settings to the factory default.	
System Information	Check the system version number.	
Disc Auto Update	**On**	Display the software update screen when the disc with the player's update file is loaded.
	Off	The software update screen must be displayed manually. (page 46)
BUDA	BUDA Information	Display and set up the BUDA data on the connected USB device.
	BUDA Setup	

❖ Adjusting the video

1 Select and set Display Setting → Video Adjust.
Use ⬆/⬇ to select, then press **ENTER**.

2 Select and set Custom (BDP-450) or Next Screen (BDP-150).
Use ⬆/⬇ to select, then press **ENTER**.

3 Select the item and change the setting.
Use ⬆/⬇ to select the item, then use ⬅/➡ to change the setting. Once the setting is completed, press

↩ **RETURN** to close the settings screen.

List of BDP-450 setting items

Item	Description
Prog.Motion	Adjust according to the type of image (moving or still image). This is effective mainly when outputting video materials as progressive images.
Pure Cinema	This setting optimizes the operation of the progressive scanning circuit for playing film materials.
Brightness	Select this to adjust the TV screen's brightness.
Contrast	Select this to adjust the TV screen's contrast.
Hue	Adjusts the balance between green and red.
Saturation	Select this to adjust the TV screen's saturation.
Detail	Adjusts the picture's contours.
YNR	Reduces noise in the luminance (Y) signal.
CNR	Reduces noise in the chroma (C) signal.
MNR	Reduces the mosquito noise (distortion along the contours of the picture generated upon MPEG compression).
BNR	Reduces the block noise (block-shaped distortion generated upon MPEG compression).

List of BDP-150 setting items

Item	Description
Brightness	Select this to adjust the TV screen's brightness.
Contrast	Select this to adjust the TV screen's contrast.
Hue	Select this to adjust the color (green and red) balance of the TV screen.
Saturation	Select this to adjust the TV screen's saturation.

Note

- For the BDP-450, the **Video Adjust** settings do not affect Blu-ray 3D pictures or the pictures of the **HDMI OUT (SUB)** terminals.

❖ Setting the IP address

1 Select and set Network → IP setting → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

2 Set IP address.
Use ↑/↓/←/→ to set the IP address of the player or DNS server, then press **ENTER**.

- **Auto Set IP Address**

  On – The player's IP address is obtained automatically. Select this when using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function. This player's IP address will automatically be allocated from the DHCP server.

  Off – The player's IP address must be set manually. Use the number buttons (0 to 9) to input the IP address, subnet mask and default gateway.

Note

- For information on the DHCP server function, refer to the operating instructions for the network device.
- You may need to contact your Internet service provider or network administrator when inputting the IP address manually.

❖ Setting the proxy server

Only set the proxy server if so instructed by your Internet service provider.

1 Select and set Network → Proxy Server → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

2 Select and set Use or Not use at Proxy Server.
Use ←/→ to change, then press ↓.

- **Use** – Select this when using a proxy server.
- **Not use** – Select this when not using a proxy server.

If you have selected **Use**, proceed to step **3**.

3 Select and set Server Select Method.
Use ←/→ to change, then press ↓.

- **IP Address** – Input the IP address.
- **Server Name** – Input the server name.

4 Input IP Address or Server Name.
Use the number buttons (0 to 9) to input the number if you select IP address in step **3**. Use ←/→ to move the cursor.

When Server Name is selected in step **3**, use the number buttons (0 to 9) to launch the software keyboard. Now use ↑/↓/←/→ to select characters and items, then press **ENTER** to input.

5 Input Port Number.
Press ↓, then use the number buttons (0 to 9) to input the number.

6 Press ENTER to set.

❖ Displaying the network settings

▶ **Select and set Network → Information → Next Screen.**
Use ↑/↓ to select, then press **ENTER**.

The MAC address, IP address, subnet mask, default gateway and DNS server (primary and secondary) settings are displayed.

When **Auto Set IP Address** is set to **On**, the values obtained automatically are displayed.

Note

- "0.0.0.0" is displayed when each IP address has not been set.

❖ Testing the network connection

▶ **Select and set Network → Connection Test → Start.**
Use ↑/↓ to select, then press **ENTER**.

"Network is OK." is displayed once the test is completed. If any other message is displayed, check the connections and/or settings (pages 23 and above).

❖ Changing to other language at language setting

1 Select and set Language.
Use ↑/↓ to select, then press **ENTER**.

2 Select and set OSD, Audio, Subtitle or Menu.
Use ↑/↓ to select, then press **ENTER**.

3 Select and set the desired language.
Use ↑/↓ to select, then press **ENTER**.

Note

- If a language not recorded on the BD/DVD is set, one of the recorded languages is automatically selected and played.

❖ Erasing data that has been added to BDs and application data

Use this procedure to erase data that has been added to BDs (data downloaded with the BD-LIVE function and data used with the BONUSVIEW function) and application data.

Caution

- Some time is required to erase the data.
- Do not unplug the power cord while data is being erased.

1 Select and set BUDA → BUDA Setup.
Use ↑/↓ to select, then press **ENTER**.

2 Select and set Fmt buda.
Press **ENTER**.

❖ Registering or Changing the password

Use this procedure to register or change the code number required for the Parental Lock settings.

About default password of this unit

The default password is "0000".

- This unit might ask you to enter a password when you change the password.
- If you reset this unit, your password is simultaneously changed to the default setting.

1 Select and set Security → Change Password → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

2 Input the password.
Use the number buttons (0 to 9) to input the number, then press **ENTER** to set.

Use ←/→ to move the cursor.

3 Re-input the password.
Use the number buttons (0 to 9) to input the number, then press **ENTER** to set.

Use ←/→ to move the cursor.

- To change the password, input the previously registered password, then input the new password.

Note

- We recommend making a note of the password.
- If you have forgotten the password, reset the player to the factory default setting, then register the password again (page 47).

❖ Changing the Parental Lock level for viewing DVDs/BD-ROMs

Some DVD-Video discs containing scenes of violence, for example, have Parental Lock levels (check the indications on the disc's jacket or elsewhere). To restrict viewing these discs, set the player's level to the level lower than the discs.

1 Select and set Security → Parental Control → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

2 Input the password.
Use the number buttons (0 to 9) to input the number, then press **ENTER** to set.

Use ←/→ to move the cursor.

3 Change the level.
Use ←/→ to change, then press **ENTER** to set.

Note

- The level can be set to **Off** or between **Level1** and **Level8**. When set to **Off**, viewing is not restricted.

❖ Changing the Country/Area code

1 Select and set Security → Country Code → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

2 Input the password.
Use the number buttons (0 to 9) to input the number, then press **ENTER** to set.

Use ←/→ to move the cursor.

3 Change the country/area code.
Use ←/→ to change, then press **ENTER** to set. Refer to page 49.

Software updating

The player's software can be updated using one of the methods shown below.

- Connecting to the Internet.
- Using a disc.
- Using a USB flash drive.

Product information on this player is provided on the Pioneer website. Check the website shown on page 6 for update and service information on your Blu-ray disc player.

Caution

- Do not perform the actions below while the software is being updated. Doing so will interrupt updating and could lead to malfunction.
  - Disconnecting a USB memory device
  - Unplugging the power cord
  - On the BDP-450, pressing ⏻ **STANDBY/ON** on the main unit's front panel for over 5 seconds.
  - On the BDP-150, pressing the reset button.
- There are two processes for software updating, downloading and updating. Both processes may take a certain period of time.
- Other operations are defeated during software updating. Furthermore, updating process cannot be canceled.
- On the BDP-450, when the front panel display is off, turn it on with **FL DIMMER**. When updating the player's software with the front panel display off, do not unplug the power cord until the unit turns off.

❖ Updating connecting to the Internet

1 Connect to the Internet.

2 When playback is stopped, display the Home Menu screen.

Press **HOME MENU**.

3 Select and set Initial Setup.
Use ↑/↓ to select, then press **ENTER**.

4 Select and set Options → Update → Network → Start.
Use ↑/↓/←/→ to select, then press **ENTER**.

5 Updating starts.
Press **ENTER**.

- Software updating may take a certain period of time.
- When updating is completed, the unit restarts automatically.

❖ Updating using a USB flash drive/ disc

Note

- When an update file is provided on the Pioneer website, use your computer to download it onto a USB flash drive or disc. Carefully read the instructions on downloading update files provided on the Pioneer website.
- Store the update file in the root directory of the USB flash drive or disc. Do not store it within a folder.
- Do not put any files other than the update file on the USB flash drive or disc.
- To update using a disc, use a CD-R or CD-RW disc.
- This unit supports USB flash drives formatted in FAT32, FAT16 or NTFS. When formatting a USB flash drive on your computer, do so with the settings below.
  - File system: FAT32
  - Allocation unit size: Default allocation size
- Only store the most recent update file on the USB flash drive or disc.
- Do not use a USB extension cable to connect a USB flash drive to the player. Using a USB extension cable may prevent the player from performing correctly.

1 Plug in the USB flash drive or load the disc on which the update file is stored.

2 When playback is stopped, display the Home Menu screen.

Press **HOME MENU**.

3 Select and set Initial Setup.
Use ↑/↓ to select, then press **ENTER**.

4 Select and set Options → Update → Disc or USB Storage → Start.
Use ↑/↓/←/→ to select, then press **ENTER**.

5 Updating starts.
Press **ENTER**.

- Software updating may take a certain period of time.
- When updating is completed, the unit restarts automatically.

Restoring all the settings to the factory default settings

1 Check that the player's power is turned on.

2 When playback is stopped, display the Home Menu screen.

Press **HOME MENU**.

3 Select and set Initial Setup.
Use ↑/↓ to select, then press **ENTER**.

4 Select and set Options → Load Default → Next Screen.
Use ↑/↓ to select, then press **ENTER**.

5 Select and set OK.
Use ←/→ to select, then press **ENTER**.

Note

- After restoring all the settings to the factory default settings, use **Setup Navigator** to reset the player (page 24).

About how digital audio formats are output

Setting	Bitstream		PCM		Re-encode		
Method of conversion	Only the primary audio (the main sound for movies, etc.) is output. The secondary audio and interactive audio are not output.		The primary audio, secondary audio and interactive audio are converted into PCM audio and output simultaneously.		The primary audio, secondary audio and interactive audio are converted into PCM audio then converted again into Dolby Digital audio or DTS audio and output simultaneously.[1]		
Output terminal(s) / Audio type	HDMI OUT terminal	DIGITAL OUT terminal	HDMI OUT terminal	DIGITAL OUT terminal	HDMI OUT terminal	DIGITAL OUT terminal	AUDIO OUTPUT terminal[2]
Dolby Digital	Dolby Digital	Dolby Digital	PCM 5.1ch	PCM 2 ch[3]	Dolby Digital	Dolby Digital	2 ch[3]
Dolby Digital Plus	Dolby Digital Plus	Dolby Digital	PCM 7.1ch				
Dolby TrueHD	Dolby TrueHD	Dolby Digital	PCM 7.1ch				
DTS Digital Surround	DTS Digital Surround	DTS Digital Surround	PCM 5.1ch		DTS 5.1ch	DTS 5.1ch	
DTS-HD High Resolution Audio	DTS-HD High Resolution Audio	DTS ES 6.1 ch	PCM 7.1ch				
DTS-HD Master Audio	DTS-HD Master Audio	DTS ES 6.1 ch	PCM 7.1ch				
PCM	PCM 7.1ch	PCM 2 ch[3]	PCM 7.1ch		Dolby Digital	Dolby Digital	
MPEG-2 AAC[4]	MPEG-2 AAC	MPEG-2 AAC	PCM 5.1ch		MPEG-2 AAC	MPEG-2 AAC	
SACD (DSD)	DSD 5.1ch[5]	PCM 2 ch[6]	PCM 5.1ch	PCM 2 ch[6]	PCM 5.1ch	PCM 2 ch[6]	2 ch[6]
DVD-Audio[7]	PCM 5.1ch[8]	PCM 2 ch[3, 9]	PCM 5.1ch[8]	PCM 2 ch[3, 9]	PCM 5.1ch[8]	PCM 2 ch[3, 9]	2 ch

1. If there is no secondary audio or interactive audio, depending on the disc the signals may be output without being re-encoded.
2. BDP-150 only.
3. For multi-channel audio, the sound is converted into 2-channel audio for output.
4. Only for ASEAN and Taiwan models.
5. When **Resolution** is set to **480I** or **480P**, or even when it is set to **Auto**, if the connected device does not support 480i/480p, the DSD audio of SACDs is output in two channels, front left and front right (page 41).
6. When **HDMI Audio Out** is set to **Bitstream**, the sound is not output (page 42).
7. BDP-450 only.
8. When the connected device has two channels (front left and right), with DVD Audio discs prohibiting downmixing, the multi-channel audio signals are output as two channels (front left and right).
9. Digital sound is not output for discs on which downmixing is prohibited.

Note

- Depending on the disc, the number of channels may differ.
- Depending on the connected HDMI device, the HDMI output audio and number of channels may differ.
- The HDMI output audio and number of channels may differ when **Resolution** is set to **480I** or **480P**, as well as when set to **Auto** if the connected device only supports 480i/480p.
- Three types of audio are recorded on BD video discs.
  - Primary audio: The main sound.
  - Secondary audio: Additional sound added supplementarily, such as comments by directors, actors, etc.
  - Interactive audio: Sounds such as clicks heard when operations are performed. The interactive audio differs from disc to disc.

Language Code Table and Country/Area Code Table

Language Code Table

Language name, **language code, input code**

Abkhazian, **ab/abk, 0102**
Afar, **aa/aar, 0101**
Afrikaans, **af/afr, 0106**
Albanian, **sq/sqi, 1917**
Amharic, **am/amh, 0113**
Arabic, **ar/ara, 0118**
Armenian, **hy/hye, 0825**
Assamese, **as/asm, 0119**
Aymara, **ay/aym, 0125**
Azerbaijani, **az/aze, 0126**
Bashkir, **ba/bak, 0201**
Basque, **eu/eus, 0521**
Belarusian, **be/bel, 0205**
Bengali, **bn/ben, 0214**
Bihari, **bh/bih, 0208**
Bislama, **bi/bis, 0209**
Breton, **br/bre, 0218**
Bulgarian, **bg/bul, 0207**
Burmese, **my/mya, 1325**
Catalan, **ca/cat, 0301**
Central Khmer, **km/khm, 1113**
Chinese, **zh/zho, 2608**
Corsican, **co/cos, 0315**
Croatian, **hr/hrv, 0818**
Czech, **cs/ces, 0319**
Danish, **da/dan, 0401**
Dutch, **nl/nld, 1412**
Dzongkha, **dz/dzo, 0426**
English, **en/eng, 0514**
Esperanto, **eo/epo, 0515**
Estonian, **et/est, 0520**
Finnish, **fi/fin, 0609**
Fijian, **fj/fij, 0610**
Faroese, **fo/fao, 0615**
French, **fr/fra, 0618**
Galician, **gl/glg, 0712**
Georgian, **ka/kat, 1101**
German, **de/deu, 0405**
Greek, **el/ell, 0512**
Guarani, **gn/grn, 0714**
Gujarati, **gu/guj, 0721**
Hausa, **ha/hau, 0801**
Hebrew, **iw/heb, 0923**
Hindi, **hi/hin, 0809**
Hungarian, **hu/hun, 0821**
Icelandic, **is/isl, 0919**
Indonesian, **in/ind, 0914**
Interlingua, **ia/ina, 0901**
Interlingue, **ie/ile, 0905**
Inupiaq, **ik/ipk, 0911**
Irish, **ga/gle, 0701**
Italian, **it/ita, 0920**
Japanese, **ja/jpn, 1001**
Javanese, **jw/jav, 1023**
Kalaallisut, **kl/kal, 1112**
Kannada, **kn/kan, 1114**
Kashmiri, **ks/kas, 1119**
Kazakh, **kk/kaz, 1111**
Kinyarwanda, **rw/kin, 1823**
Kirghiz, **ky/kir, 1125**
Korean, **ko/kor, 1115**
Kurdish, **ku/kur, 1121**
Lao, **lo/lao, 1215**
Latin, **la/lat, 1201**
Latvian, **lv/lav, 1222**
Lingala, **ln/lin, 1214**
Lithuanian, **lt/lit, 1220**
Macedonian, **mk/mkd, 1311**
Malagasy, **mg/mlg, 1307**
Malay, **ms/msa, 1319**
Malayalam, **ml/mal, 1312**
Maltese, **mt/mlt, 1320**
Maori, **mi/mri, 1309**
Marathi, **mr/mar, 1318**
Mongolian, **mn/mon, 1314**
Moldavian, **mo/mol, 1315**
Nauru, **na/nau, 1401**
Nepali, **ne/nep, 1405**
Norwegian, **no/nor, 1415**
Occitan, **oc/oci, 1503**
Oriya, **or/ori, 1518**
Oromo, **om/orm, 1513**
Panjabi, **pa/pan, 1601**
Persian, **fa/fas, 0601**
Polish, **pl/pol, 1612**
Portuguese, **pt/por, 1620**
Pushto, **ps/pus, 1619**
Quechua, **qu/que, 1721**
Romanian, **ro/ron, 1815**
Romansch, **rm/roh, 1813**
Rundi, **rn/run, 1814**
Russian, **ru/rus, 1821**
Samoan, **sm/smo, 1913**
Sango, **sg/sag, 1907**
Sanskrit, **sa/san, 1901**
Scottish Gaelic, **gd/gla, 0704**
Serbian, **sr/srp, 1918**
Serbo-Croatian, **sh/---, 1908**
Shona, **sn/sna, 1914**
Sindhi, **sd/snd, 1904**
Sinhalese, **si/sin, 1909**
Slovak, **sk/slk, 1911**
Slovenian, **sl/slv, 1912**
Somali, **so/som, 1915**
Sotho, Southern, **st/sot, 1920**
Spanish, **es/spa, 0519**
Sundanese, **su/sun, 1921**
Swahili, **sw/swa, 1923**
Swati, **ss/ssw, 1919**
Swedish, **sv/swe, 1922**
Tagalog, **tl/tgl, 2012**
Tajik, **tg/tgk, 2007**
Tamil, **ta/tam, 2001**
Tatar, **tt/tat, 2020**
Telugu, **te/tel, 2005**
Thai, **th/tha, 2008**
Tibetan, **bo/bod, 0215**
Tigrinya, **ti/tir, 2009**
Tonga (Tonga Islands), **to/ton, 2015**
Tsonga, **ts/tso, 2019**
Tswana, **tn/tsn, 2014**
Turkmen, **tk/tuk, 2011**
Turkish, **tr/tur, 2018**
Twi, **tw/twi, 2023**
Ukrainian, **uk/ukr, 2111**
Urdu, **ur/urd, 2118**
Uzbek, **uz/uzb, 2126**
Vietnamese, **vi/vie, 2209**
Volapük, **vo/vol, 2215**
Welsh, **cy/cym, 0325**
Western Frisian, **fy/fry, 0625**
Wolof, **wo/wol, 2315**
Xhosa, **xh/xho, 2408**
Yiddish, **ji/yid, 1009**
Yoruba, **yo/yor, 2515**
Zulu, **zu/zul, 2621**

Country/Area Code Table

Country/Area name, **Country/Area code, input code**

Anguilla, **ai, 0109**
Antigua and Barbuda, **ag, 0107**
Argentina, **ar, 0118**
Armenia, **am, 0113**
Australia, **au, 0121**
Austria, **at, 0120**
Azerbaijan, **az, 0126**
Bahamas, **bs, 0219**
Barbados, **bb, 0202**
Belarus, **by, 0225**
Belgium, **be, 0205**
Belize, **bz, 0226**
Bermuda, **bm, 0213**
Brazil, **br, 0218**
Bulgaria, **bg, 0207**
Canada, **ca, 0301**
Cayman Islands, **ky, 1125**
Chile, **cl, 0312**
China, **cn, 0314**
Colombia, **co, 0315**
Croatia, **hr, 0818**
Cyprus, **cy, 0325**
Czech Republic, **cz, 0326**
Denmark, **dk, 0411**
Dominica, **dm, 0413**
Dominican Republic, **do, 0415**
Estonia, **ee, 0505**
Finland, **fi, 0609**
France, **fr, 0618**
Georgia, **ge, 0705**
Germany, **de, 0405**
Greece, **gr, 0718**
Greenland, **gl, 0712**
Grenada, **gd, 0704**
Guyana, **gy, 0725**
Haiti, **ht, 0820**
Hong Kong, **hk, 0811**
Hungary, **hu, 0821**
Iceland, **is, 0919**
India, **in, 0914**
Indonesia, **id, 0904**
Ireland, **ie, 0905**
Israel, **il, 0912**
Italy, **it, 0920**
Jamaica, **jm, 1013**
Japan, **jp, 1016**
Kazakhstan, **kz, 1126**
Korea, Republic of, **kr, 1118**
Kyrgyzstan, **kg, 1107**
Latvia, **lv, 1222**
Liechtenstein, **li, 1209**
Lithuania, **lt, 1220**
Luxembourg, **lu, 1221**
Macedonia, the Former Yugoslav Republic of, **mk, 1311**
Malaysia, **my, 1325**
Malta, **mt, 1320**
Mexico, **mx, 1324**
Moldova, Republic of, **md, 1304**
Monaco, **mc, 1303**
Montserrat, **ms, 1319**
Netherlands, **nl, 1412**
New Zealand, **nz, 1426**
Norway, **no, 1415**
Pakistan, **pk, 1611**
Peru, **pe, 1605**
Philippines, **ph, 1608**
Poland, **pl, 1612**
Portugal, **pt, 1620**
Puerto Rico, **pr, 1618**
Romania, **ro, 1815**
Russian Federation, **ru, 1821**
Saint Kitts and Nevis, **kn, 1114**
Saint Lucia, **lc, 1203**
Saint Vincent and the Grenadines, **vc, 2203**
San Marino, **sm, 1913**
Singapore, **sg, 1907**
Slovakia, **sk, 1911**
Slovenia, **si, 1909**
Spain, **es, 0519**
Suriname, **sr, 1918**
Sweden, **se, 1905**
Switzerland, **ch, 0308**
Taiwan, Province of China, **tw, 2023**
Tajikistan, **tj, 2010**
Thailand, **th, 2008**
Trinidad and Tobago, **tt, 2020**
Tunisia, **tn, 2014**
Turkey, **tr, 2018**
Turkmenistan, **tm, 2013**
Turks and Caicos Islands, **tc, 2003**
Ukraine, **ua, 2101**
United Kingdom, **gb, 0702**
United States, **us, 2119**
Uruguay, **uy, 2125**
Uzbekistan, **uz, 2126**
Venezuela, **ve, 2205**
Virgin Islands, British, **vg, 2207**

Chapter 8

Additional information

Cautions on use

Moving the player

If you need to move this unit, first remove the disc if there's one loaded, and close the disc tray. Next, press ⏻ **STANDBY/ON** to switch the power to standby, checking that the **POWER OFF** indication on the front panel display goes off. Wait at least 10 seconds. Lastly, disconnect the power cord.

Never lift or move the unit during playback — discs rotate at a high speed and may be damaged.

Place of installation

Select a stable place near the TV and AV system to which the unit is connected.

Do not place the player on top of a TV or color monitor. Keep it away from cassette decks or other components easily affected by magnetism.

Avoid the following types of places:

- Places exposed to direct sunlight
- Humid or poorly ventilated places
- Extremely hot or cold places
- Places subject to vibration
- Places in which there is much dust or cigarette smoke
- Places exposed to soot, steam or heat (in kitchens, etc.)

❖ Do not place objects on top

Do not place objects on top of the player.

❖ Do not obstruct the ventilation holes

Do not use the player on a shaggy rug, bed, or sofa, and do not cover the player with a cloth, etc. Doing so will prevent heat dissipation and could lead to damage.

❖ Keep away from heat

Do not place the player on top of an amplifier or other device generating heat. When installing in a rack, to avoid the heat generated by the amplifier and other devices, place it on a shelf below the amplifier whenever possible.

Turn the power off when not using the player

Depending on the conditions of the TV broadcast signals, striped patterns may appear on the screen when the TV is turned on while the player's power is turned on. This is not a malfunction with the player or TV. If this happens, turn the player's power off. In the same way, noise may be heard in the sound of a radio.

Condensation

If the player is moved suddenly from a cold place into a warm room (in winter, for example) or if the temperature in the room in which the player is installed rises suddenly due to a heater, etc., water droplets (condensation) may form inside (on operating parts and the lens). When condensation is present, the player will not operate properly and playback is not possible. Let the player stand at room temperature for 1 or 2 hours with the power turned on (the time depends on the extent of condensation). The water droplets will dissipate and playback will become possible.

Condensation can also occur in the summer if the player is exposed to the direct wind from an air-conditioner. If this happens, move the player to a different place.

Cleaning the player

Normally, wipe the player with a soft cloth. For tough dirt, apply some neutral detergent diluted in 5 to 6 parts water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe again with a dry cloth.

Note that getting alcohol, thinner, benzene or insecticide on the player could cause the print and coating to peel off. Also, avoid leaving rubber or vinyl products in contact with the player for long periods of time, as this could damage the cabinet.

When using chemical-impregnated wipes, etc., read the wipe's cautions carefully.

Unplug the power cord from the power outlet when cleaning the player.

Caution for when the unit is installed in a rack with a glass door

Do not press the ⏏ **OPEN/CLOSE** on the remote control to open the disc tray while the glass door is closed. The door will hamper the movement of the disc tray, and the unit could be damaged.

Cleaning the pickup lens

The player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer authorized service center. Although lens cleaners for players are commercially available, we advise against using them since some may damage the lens.

Handling discs

Do not use damaged (cracked or warped) discs.

Do not scratch the disc's signal surface or let it get dirty.

Do not load more than one disc into the player at a time.

Do not glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

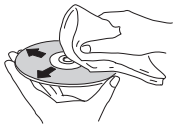
❖ Storing discs

Always store discs in their cases, and place the cases vertically, avoiding places exposed to high temperatures or humidity, direct sunlight or extremely low temperatures.

Be sure to read the cautions included with the disc.

❖ Cleaning discs

It may not be possible to play the disc if there are fingerprints or dust on it. In this case, using a cleaning cloth, etc., to wipe the disc gently from the center toward the outer edge. Do not use a dirty cleaning cloth.



Do not use benzene, thinner or other volatile chemicals. Also do not use record spray or antistatic agents.

For tough dirt, apply some water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe off the moisture with a dry cloth.

❖ Specially shaped discs

Specially shaped discs (heart-shaped, hexagonal, etc.) cannot be used on this player. Never use such discs, as they will damage the player.

❖ Condensation on discs

If the disc is moved suddenly from a cold place into a warm room (in winter, for example), water droplets (condensation) may form on the disc surface. Discs will not play properly if there is condensation on them. Carefully wipe off the water droplets from the disc surface before using the disc.

Troubleshooting

Incorrect operation is often mistaken for trouble or malfunction. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified even after checking the points below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Playback

Problem	Check	Remedy
• Disc does not play. • Disc tray opens automatically.	Is the disc one that is playable on this player?	Check whether the disc is one that can be played on this player (page 7).
	Is the file one that is playable on this player?	• Check whether the file is one that can be played on this player (page 10). • Check whether or not the file is damaged.
	Is the disc scratched?	It may not be possible to play scratched discs.
	Is the disc dirty?	Clean the disc (page 51).
	Is there a piece of paper or sticker attached to the disc?	The disc may be warped and unplayable.
	Is the disc properly set in the disc tray?	• Set the disc with the printed side facing up. • Set the disc properly in the depression in the disc tray.
	Is the region number correct?	See page 9 for the region numbers of discs that can be played on this player.
No picture is displayed or the picture is not displayed properly.	Is the video cable properly connected?	• Connect the cable properly according to the connected devices (page 17). • Disconnect the cable (video/audio cable or HDMI cable), then reinsert it firmly and all the way in. • For BDP-450, a TV or any other device which outputs video signals must be connected to the **HDMI OUT (MAIN)** terminal (page 20).
	Is the video cable damaged?	If the cable is damaged, replace it with a new one.
	Is the input setting on the connected TV or AV receiver or amplifier right?	Read the operating instructions for the connected components and switch to the proper input.
	Is the output video resolution properly set?	• For the BDP-450, switch the resolution at which the video and audio are output by pressing and holding **HDMI** for over 2 seconds. • For the BDP-150, switch the resolution at which the video and audio are output by pressing **HDMI**.
	• Is the player connected with an HDMI cable other than a High Speed HDMI®/™ cable (with a Standard HDMI®/™ cable)? • Are you using an HDMI cable with a built-in equalizer?	1080p or Deep Color video signals may not be output properly, depending on the HDMI cable being used or the player's settings. If you wish to output the video signals with 1080p or Deep Color, connect the TV using a High Speed HDMI®/™ cable without a built-in equalizer, then reset the player using the **Setup Navigator** (page 24).
	Is a DVI device connected?	The picture may not be displayed properly if a DVI device is connected.
	Is **Color Space** properly set?	Change the **Color Space** setting (page 41).
	For the BDP-450: Is the **HDMI Mode** set appropriately?	Set the **HDMI Mode** to something other than **Pure Audio** (page 41).
Playback stops.		• Playback may stop if the unit is subject to shocks or set in an unstable place. • Playback may stop when a USB device is connected or disconnected during playback. Do not connect or disconnect USB devices during playback.

Problem	Check	Remedy
Picture freezes and the front panel and remote control buttons stop working.		• Press ■ **STOP** to stop playback, then restart playback. • If the playback cannot be stopped, press ⏻ **STANDBY/ON** on the player's front panel to turn off the power, then turn the power back on. • If the power cannot be turned off (to standby), reset the unit. On the BDP-450, press and hold ⏻ **STANDBY/ON** on the main unit's front panel for over 5 seconds. On the BDP-150, use a thin rod to press the reset button on the main unit's front panel. The unit restarts and can now be operated. • It may not be possible to play scratched discs.
No picture is displayed or picture is not output in high definition when playing BDs.		With some discs, it may not be possible to output the video signals from the **VIDEO** output terminal. In this case, connect using an HDMI cable (page 17).
• Picture is disturbed during playback. • Picture is dark.		• This player supports Rovi analog copy protection technology. With some TVs (such as with built-in video deck), the picture will not be displayed properly when the copy protected DVD title is played. This is not a malfunction. • If the player and TV are connected via a DVD recorder/video deck, etc., the picture will not be displayed properly due to analog copy protection. Connect the player and TV directly.
• Picture is stretched. • Picture is cropped. • Aspect ratio cannot be switched.	Is the TV's aspect ratio properly set?	Read the operating instructions for the TV and set the TV's aspect ratio properly.
	Is **TV Screen** properly set?	Set **TV Screen** properly (page 40).
		When video signals with a resolution of 1080/50i, 1080/50p, 720/50p, 1080/24p, 1080/60i, 1080/60p or 720/60p are being output from the **HDMI OUT** terminal, they may be output with an aspect ratio of 16:9 even if **TV Screen** is set to **4:3 Pan&Scan** (page 40).
Picture is interrupted.		The picture may be interrupted when the resolution of the recorded video signal switches. Set **Resolution** to something other than **Auto** (page 41).
The subtitles cannot be switched.		The subtitles cannot be switched for discs recorded on a DVD or BD recorder.
• No sound is output. • Sound is not output properly.	Is the disc played back in slow motion? Is the disc played back in fast forward or fast reverse?	No sound is output during slow motion play and forward and reverse scanning.
	Are the audio cables properly connected?	• Connect the cable properly according to the connected devices (page 17). • Insert the cable firmly and all the way in.
	Is the audio cable damaged?	If the cable is damaged, replace it with a new one.
	Is **Audio Output** properly set?	Set **Audio Output** properly, according to the connected device (page 41).
	Are the connected components (AV receiver or amplifier, etc.) properly set?	Read the operating instructions for the connected components and check the volume, input, speaker settings, etc.
	Is **HDMI Audio Out** properly set?	Set **HDMI Audio Out** to **Re-encode** or **PCM**. (page 42).
	Is the output video resolution properly set?	• For the BDP-450, switch the setting at **Resolution** (page 41). • For the BDP-150, switch the resolution at which the video and audio are output by pressing **HDMI**.
	Is a DVI device connected?	The sound will not be output from the **HDMI OUT** terminal if a DVI device is connected. Connect the device to a **DIGITAL OUT** terminal or the **AUDIO OUT** terminals (page 21).
		For some BDs, audio signals are only output from **DIGITAL OUT** terminal or the **HDMI OUT** terminal.
	For the BDP-450: Is the **HDMI Mode** set appropriately?	Set the **HDMI Mode** properly, according to the connected device (page 41).

Problem	Check	Remedy
Multi-channel sound is not output.	Is the audio output of the connected AV receiver or amplifier, etc., properly set?	Read the operating instructions for the connected AV receiver or amplifier and check the audio output settings of the AV receiver or amplifier.
	Is multi-channel sound selected?	Use the menu screen or **AUDIO** to switch the disc's sound to multi-channel.
Noise can be heard when outputting DTS Digital Audio signals from the **DIGITAL OUT** terminal.	Is the connected AV receiver or amplifier compatible with DTS Digital Surround?	If an AV receiver or amplifier that is not compatible with DTS Digital Surround is connected to the **DIGITAL OUT** terminal, set **Digital Output** to **PCM** (page 41).
192 kHz or 96 kHz digital audio signals cannot be output from the **DIGITAL OUT** terminal.		• Copyright-protected audio is converted to 48 kHz or less before output. • Set **Downsampling** to **96KHz** or **192KHz** (page 41).
Secondary audio or interactive audio is not output.	Is **HDMI Audio Out** properly set?	When listening to the sound from an **HDMI OUT** terminal, set **HDMI Audio Out** to **PCM** (page 42).
	Are **Digital Output** properly set?	When listening to the sound from an **DIGITAL OUT** terminal, set **Digital Output** to **Re-encode** or **PCM** (page 41).
Sound is fast or slow. (Only for BDP-450)	When an HDMI cable is connected, are audio signals being output from devices connected with cables other than HDMI cables?	When a Pioneer AV receiver or amplifier compatible with the PQLS function is connected directly to the player's **HDMI OUT** terminal using an HDMI cable, the PQLS function is activated when playing an audio CD (CD-DA). Because of this, the sound output from components other than the ones connected by an HDMI cable may be fast or slow. If this happens, set **Control** to **Off** (page 42).
After a disc is inserted, **Loading** stays displayed and playback does not start.	Are there too many files recorded on the disc?	When a disc on which files are recorded is inserted, depending on the number of files recorded on the disc, loading may take several dozen minutes.
■ is displayed in file names, etc.		The characters that cannot be displayed on this player are displayed in ■.
A message indicating low memory appears while playing a BD-ROM disc.		• Connect a USB device (page 22). • Erase the data stored on the connected USB device from **BUDA Setup** (page 45).

Control function

Problem	Check	Remedy
Control function does not work.	Is the HDMI cable properly connected?	To use the Control function, connect the Flat Screen TV and AV system (AV receiver or amplifier, etc.) to the **HDMI OUT** terminal (page 17).
	Is the HDMI cable you are using a High Speed HDMI®/™ Cable?	Use a High Speed HDMI®/™ Cable. The Control function may not work properly if an HDMI cable other than a High Speed HDMI®/™ Cable is used.
	Is this player connected to the TV using an HDMI cable to watch the picture?	If video signals are being output from a terminal other than the **HDMI OUT** terminal, the Control function does not work. Connect to the TV using an HDMI cable (page 17).
	For the BDP-450: Is the **HDMI Mode** set appropriately?	• When connecting a device supporting the control function to the **HDMI OUT (MAIN)** terminal, set the **HDMI Mode** to **Dual**. • When connecting a device supporting the control function to the **HDMI OUT (SUB)** terminal, set the **HDMI Mode** to **Separate** or **Pure Audio** (page 41).
	Is **Control** set to **On** on the player?	Set **Control** to **On** on the player (page 42).
	Does the connected device support the Control function?	• The Control function will not work with devices of other brands that do not support the Control function, even when connected using an HDMI cable. • The Control function will not work if devices that do not support the Control function are connected between the Control-compatible device and the player. • See page 18. • Even when connected to a Pioneer product compatible with the Control function, some of the functions may not work. Also refer to the operating instructions for the connected device.
	Is Control set to On on the connected device?	Set Control to On on the connected device. The Control function operates when Control is set to On for all devices connected to the **HDMI OUT** terminal. Once connections and settings of all the devices are finished, be sure to check that the player's picture is output to the Flat Screen TV. (Also, check after changing the connected devices and connecting and/or disconnecting HDMI cables.) If the player's picture is not being output to the Flat Screen TV, the Control function may not work properly. For details, refer to the operating instructions of the connected device.
	Are multiple players connected?	The Control function may not work if three or more players, including this player, are connected by an HDMI cable.

Network

Problem	Check	Remedy
• BD-LIVE function (connection to the Internet) cannot be used. • "No valid id file found!" is displayed when I try to update the software.		Perform **Connection Test** (page 45). If "Networks is OK." is displayed, check the proxy server settings (page 45). Also, there may be a problem with the Internet connection. Contact your Internet service provider.
Software updating is slow.		Depending on the Internet connection and other conditions, some time may be required to update the software.

Problem	Check	Remedy
A message other than "Networks is OK." is displayed when **Connection Test** is performed.	Is "Network is FAILED." displayed?	• Check that this player and the Ethernet hub (or router with a hub functionality) are properly connected. • If the IP address is obtained using the DHCP server function, check the setting is correct at the **Information** (page 42). For details on the DHCP server function, see the operating instructions for the Ethernet hub (or router with a hub functionality). • Set the IP address manually. • Check the operation and settings of the DHCP server function of the Ethernet hub (or router with hub functionality). For details on the DHCP server function, see the operating instructions for the Ethernet hub (or router with a hub functionality). • If this player has been set manually, reset the IP address of this player or other components.
	Is the Ethernet hub (or router with a hub functionality) operating properly?	• Check the settings and operation the Ethernet hub (or router with a hub functionality). For details, see the operating instructions for the Ethernet hub. • Reboot the Ethernet hub (or router with a hub functionality).

Others

Problem	Check	Remedy
Power does not turn on.	Is the power cord properly connected?	• Plug the power cord securely into the power outlet (page 23). • Unplug the power cord, wait several seconds, then plug the power cord back in.
The player's power turns off automatically.	Is **Auto Power Off** set to **10 min**/**20 min**/**30 min**?	If **Auto Power Off** is set to **10 min**/**20 min**/**30 min**, the player's power automatically turns off if no operation is performed for the set amount of time (page 44).
The player's power turns on automatically.	Is **Control** set to **On**?	The player's power may turn on together with the power of the TV connected to the **HDMI OUT** terminal. If you do not want the player's power to turn on when the TV's power is turned on, set **Control** to **Off** (page 42).
This unit cannot be operated.		• Use within the specified usage temperature range (page 59). • If the power cannot be turned off (to standby), reset the unit. On the BDP-450, press and hold ⏻ **STANDBY/ON** on the main unit's front panel for over 5 seconds. On the BDP-150, use a thin rod to press the reset button on the main unit's front panel. The unit restarts and can now be operated.
The player cannot be operated with the remote control.	Are you operating the remote control from a point too far away from the player?	Operate from within 7 m of the remote control sensor.
	Are the batteries dead?	Replace the batteries (page 5).
Input of the connected TV and AV system switches automatically.	Is **Control** set to **On**?	The input of the TV and AV system (AV receiver or amplifier, etc.) connected to the **HDMI OUT** terminal may automatically switch to the player when playback starts on the player or the menu screen (Home Media Gallery, etc.) is displayed. If you do not want the inputs of the connected TV and AV system (AV receiver or amplifier, etc.) to switch automatically, set **Control** to **Off** (page 42).
Settings I have made have been cleared.	• Have you disconnected the power cord while the player's power was on? • Has there been a power failure?	Always press ⏻ **STANDBY/ON** on the player's front panel or ⏻ **STANDBY/ON** on the remote control and check that **POWER OFF** has turned off from the player's front panel display before disconnecting the power cord. Be particularly careful when the power cord is connected to the AC outlet on another device because the player turns off in conjunction with the device.

Problem	Check	Remedy
USB (external storage) device does not work with this player properly.	Is the USB device properly connected?	• Turn the player's power off, then turn the power back on. • Turn the player's power off, then reconnect the external storage device (page 22).
	Is the USB device connected via an extension cable?	Do not use an extension cable. The player may not work properly with it.
	Is the external storage device connected to the **USB** port via a memory card reader or USB hub?	External storage device may not work if connected to the **USB** port via a memory card reader or USB hub.
	Does the external storage device contain multiple partitions?	External storage devices may not be recognized if they contain multiple partitions.
		Some external storage devices may not operate.
	Is the external storage device write-protected?	Turn the player's power off, then disable the write-protection.
	Is the USB device's file system FAT32, FAT16 or NTFS?	USB devices formatted in the FAT32, FAT16 or NTFS file system can be used.
		Turn the player's power off, then turn the power back on.

Glossary

❖ Angle (Multi angle)
Up to 9 camera angles can be recorded simultaneously on BD-ROM or DVD-Video discs, letting you view the same scene from different angles.

❖ AVCHD (Advanced Video Codec High Definition)
See page 9.

❖ AVCREC
See page 7.

❖ BDAV
Of the BD format, the Audio Visual Format Specifications for HD digital broadcast recording is referred to as BDAV on this player and in these operating instructions.

❖ BD-J
See page 9.

❖ BD-LIVE
See page 8.

❖ BDMV
Of the BD format, the Audio Visual Format Specifications designed for pre-packaged high definition (HD) movie contents is referred to as BDMV on this player and in these operating instructions.

❖ BONUSVIEW
See page 8.

❖ Deep Color
See page 17.

❖ Default Gateway
A default gateway is a communication device such as a router which passes data between networks. It is used to direct data to networks on which the destination gateway is not explicitly specified.

❖ DHCP (Dynamic Host Configuration Protocol)
This protocol provides configuration parameters (IP address, etc.) for computers and other devices connected to the network.

❖ DivX
See page 10.

❖ DNS (Domain Name System)
This is a system for associating Internet host names with IP addresses.

❖ Dolby Digital
Dolby Digital is an audio format to record the sound in up to 5.1 channels with a fraction of the amount of data as compared to linear PCM audio signals.

❖ Dolby Digital Plus
Dolby Digital Plus is an audio format for high-definition media. Built on Dolby Digital, it combines the efficiency and flexibility to provide high quality multi-channel audio. With BD-ROMs, up to 7.1 channels of digital sound can be recorded.

❖ Dolby TrueHD
Dolby TrueHD is an audio format using lossless coding. With BD-ROMs, up to 8 channels can be recorded at 96 kHz/24 bits, or up to 6 channels at 192 kHz/24 bits.

❖ DRM
A technology for protecting copyrighted digital data. Digitized videos, images and audio retain the same quality even when they are copied or transferred repeatedly. DRM is a technology for restricting the distribution or playback of such digital data without the authorization of the copyright holder.

❖ DSD (Direct Stream Digital)
The Digital Audio encoding system found on SACDs, that expresses the audio signals by the pulse density of one bit data.

❖ DTS Digital Surround
DTS Digital Surround is an audio format to record 48 kHz/24 bits audio signals in 5.1 channels.

❖ DTS-HD High Resolution Audio
DTS-HD High Resolution Audio is an audio format using lossy coding. It can record 7.1 channels at 96 kHz/24 bits.

❖ DTS-HD Master Audio
DTS-HD Master Audio is an audio format using lossless coding. With BD-ROMs, 7.1 channels can be recorded at 96 kHz/24 bits, or 5.1 channels at 192 kHz/24 bits.

❖ Ethernet
A standard for local area networks (LANs) used to connect multiple computers, etc. in the same location. This player supports 100BASE-TX.

❖ Frames and fields
A frame is the unit for one of the still pictures which compose motion pictures. One frame consists of a picture of odd lines and a picture of even lines called fields in video signal with interlaced scan method (576i, 1080i, etc.).

❖ HDMI (High-Definition Multimedia Interface)
See page 17.

❖ Interactive audio
The audio signals recorded in the titles of BD-ROMs. They include for example the clicking sound made when the menu screen is operated.

❖ Interlaced scan
With this method, one picture is displayed by scanning it twice. The odd lines are displayed in the first pass, the even lines are displayed in the second, to form a single picture (frame). Interlaced scan is indicated in this player and operating instructions by an "i" after the resolution value (for example, 576i).

❖ IP address
An address that identifies a computer or other device connected to the Internet or local area network. It is represented a number in four sections.

❖ Linear PCM
This is referred as the audio signals that are not compressed.

❖ MAC (Media Access Control) address
A hardware identification number assigned specifically to the network device (LAN card, etc.).

❖ MPEG (Moving Picture Experts Group)
The name of a family of standards used to encode video and audio signals in a digital compressed format. The video encoding standards include MPEG-1 Video, MPEG-2 Video, MPEG-4 Visual, MPEG-4 AVC, etc. The audio encoding standards include MPEG-1 Audio, MPEG-2 Audio, MPEG-2 AAC, etc.

❖ Parental Lock
See page 46.

❖ Picture-in-Picture (P-in-P)
This is a function for superimposing a sub video on the main video. Some BD-ROMs include secondary video, which can be superimposed on the primary video.

❖ Port number
This is a sub-address provided below the IP address for simultaneously connecting to multiple parties during Internet communications.

❖ Progressive scan
With this method, one picture is consisted of a single picture, without dividing it in two pictures. Progressive scan provides clear pictures with no flicker, in particular for still pictures that contain much text, graphics, or horizontal lines. Progressive scan is indicated in this player and operating instructions by a "p" after the resolution value (for example, 576p).

❖ Proxy server
This is a relay server for ensuring fast access and safe communications when connecting to the Internet from an internal network.

❖ Region number
See page 9.

❖ Secondary audio
Some BD-ROMs include sub audio streams mixed with the main audio stream. These sub audio streams are called "secondary audio". On some discs this secondary audio is recorded as the audio for the secondary video.

❖ Secondary video
Some BD-ROMs include sub videos superimposed on the main videos using the Picture-in-Picture function. These sub videos are called "secondary video".

❖ Subnet mask
This is used to identify which part of the IP address corresponds to the subnet (a separately managed network). The subnet mask is expressed as '255.255.255.0'.

❖ USB (Universal Serial Bus)
USB is the industry standard for connecting peripherals to PCs.

❖ VC-1
A video codec developed by Microsoft and standardized by the Society of Motion Picture and Television Engineers (SMPTE). Some BDs include videos encoded in this codec.

❖ x.v.Color
See page 17.

Specifications

Model			BDP-450 BDP-150 BDP-150-K BDP-150-S
Type			Blu-ray 3D™ PLAYER
Rated voltage			AC 110 V to 240 V
Rated frequency			50 Hz/60 Hz
Power consumption			BDP-450: 23 W BDP-150: 20 W
Power consumption (standby)			0.3 W
Weight			BDP-450: 2.7 kg BDP-150: 2.1 kg
External dimensions (including projecting parts)			BDP-450: 435 mm (W) x 90 mm (H) x 252 mm (D) BDP-150: 435 mm (W) x 58 mm (H) x 250 mm (D)
Tolerable operating temperature			+5 °C to +35 °C
Tolerable operating humidity			5 % to 85 % (no condensation)
Output terminals	**HDMI**		BDP-450: 2 set, 19-pin: 5 V, 250 mA BDP-150: 1 set, 19-pin: 5 V, 250 mA
	Video outputs (BDP-150 only)		1 set, RCA jack: 1.0 Vp-p (75 Ω)
	Audio outputs (BDP-150 only)	**2-channel (left/right)**	1 set, RCA jacks
		Audio output level	200 mVrms (1 kHz, –20 dB)
		Frequency response	4 Hz to 88 kHz (192 kHz sampling)
	Digital audio outputs	**Coaxial**	1 set, RCA jacks
LAN			1 set, Ethernet jack (10BASE-T/100BASE-TX)
USB			2 set, Type A

Note

- The specifications and design of this product are subject to change without notice.
- This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.
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Please refer to our website for information regarding software updates and service to this product.

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